

## *WISI STREAMLINE* OE 01 xxxx EdgeQAM



- Multi channel QAM processor for DVB over IP signals
- UDP over IP protocol
- PCR correction
- NIT replacement
- SNMPv2c network management
- 1 Gigabit Ethernet input for 8 MPTS/QAM channels

### Versions:

- OE 01 0800 8 channel IP-QAM Converter
- OE 01 1600 16 channel IP-QAM Converter
- OE 01 2400 24 channel IP-QAM Converter
- OE 01 3200 32 channel IP-QAM Converter

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### Achtung

Die angegebene Betriebsspannung 180-265 VAC; 50/60 Hz muß mit der Netzspannung übereinstimmen.

Anschlußkabel – Stolperfrei verlegen. — mit einer Schlaufe verlegen, damit bei Kondenswasser -Schwitzwasserbildung kein Wasser ins Gerät läuft sondern auf den Boden abtropft.

### Aufstellungsort auswählen

Zu starke Hitzeeinwirkung oder Wärmestau beeinträchtigen die Lebensdauer. Nicht direkt über oder in der Nähe von Heizungsanlagen o.ä. montieren, wo das Gerät Hitzestrahlung oder Öldämpfen ausgesetzt ist.

### Lüftungsschlitze

Die Lüftungsschlitze dürfen nicht abgedeckt werden.

#### Feuchtigkeit

Tropf- oder Spritzwasser schadet dem Gerät. Bei Kondenswasserbildung warten, bis die Feuchtigkeit abgetrocknet ist.

### Achtung Lebensgefahr!

Nach EN 50 083-1 muß die Antennenanlage den Sicherheitsanforderungen bezüglich Erdung, Potentialausgleich etc. entsprechen.

#### Servicearbeiten

Dürfen nur von autorisiertem Fachpersonal durchgeführt werden. Vor Beginn der Servicearbeiten die Betriebsspannung abschalten.

### Caution

The operating voltage must match the rated input voltage of the unit (180-265 VAC; 50/60 Hz).

Connecting cable — Lay the cable so that noone can trip over it. — Lay the cable with a downward loop so that any water condensing on it can drip on the floor instead of running into the unit.

### Selecting the installation location

Excessive temperatures will reduce the operating lifetime of the unit. Do not install the unit directly above or in the vicinity of radiators or heating systems where it would be subjected to thermal radiation or oil vapours.

#### **Ventilation slots**

Do not cover the ventilation slots.

#### Moisture

Water dripping or splashing onto the unit will damage it. If there is condensation on the unit, wait until it has evaporated before switching the unit on.

#### Caution – danger!

In accordance with EN 50 083-1, the antenna system must comply with the safety requirements with respect to grounding, potential equalisation, etc.

#### Service work

D

Service work may be carried out only by qualified personnel. Always disconnect the supply voltage before starting any such work.



### Anschlüsse / Connectors



- 1-4 LED Power ON für Kanal 1...4
- 5-8 LED Error für Kanal 1...4
- 9 Testbuchse -20 dB
- 10 Netzanschluß
- 11 Sicherung T2A/250 V
- 12 Netzschalter
- **13** HF-Ausgang
- 14-17 Gb Ethernet-Anschluß

### Lieferumfang

Gerät OE 01 Gerätesoftware (CD-ROM)

- 1-4 LED Power ON for Channel 1...4
- 5-8 LED Error for Channel 1...4
- 9 Test socket -20 dB
- **10** Mains plug
- 11 Fuse T2A/250 V
- **12** Mains switch
- **13** HF output
- 14-17 Gb Ethernet connector

#### Shipment

Device OE 01 Software (CD-ROM)

#### Installation Software

Das Setup der Gerätesoftware von der beiliegenden CD-ROM aus starten.

Den Anweisungen des Installationsassistenten folgen. Nach der abgeschlossenenen Installation die Anwendung "OE-EdgeQAM" starten.

#### Installation Software

Start the setup from the enclosed CD-ROM. Follow the instructions during the installation process. After the installation is completed run the application "OE-EdgeQAM".

# Software - Benutzeroberfläche



#### Bedienelemente

1		Anwendung schießen
2	1	Verbindung herstellen
3	alle .	Netzwerk durchsuchen
4	1	IP-Adresse ändern
5	Ð	n.n.
6		Einstellungen allgemein
7	1	Software-Informationen

### Software - Gerät im Netzwerk suchen

Den Button "Netzwerk durchsuchen" anklicken - ein neues Fenster öffnet sich (Bild 1)







D

Den Optionsbutton "Broadcast" auswählen. Anschließend den Button "Suchen" anklicken. (Bild 2) Jetzt sollten die im Netz verfügbaren OE 01 angezeigt werden. (Bild 3) Das gewünschte Gerät per klicken auswählen und die

. . .

3

Das gewunschte Gerat per klicken auswahlen und die Verwendung bestätigen. (Bild 4)

### Software - IP-Adresse ändern

Den Button "IP-Adresse ändern" anklicken - ein neues Fenster öffnet sich (Bild 1)







mein Eingang 14 Eingang !	58 Ausgang	Ausgang 18	NIT	Status 14	Status 58	Log	
a link t	o the futur	e					
Produktdaten			n eNe	stzwerk-Einste	llungen		
Artikelnummer:	DQ800-A	C		MAC-Adress	*	00:	1E:17:00:01:1A
Seriennummer:	IP Adres	sse ändern				172 .	29 . 10 . 211
Hardware Revision:						255 .	255 . 255 . 0
Firmware Version:	MAC	Adresse:	0-1E-17-0	0-01-1A	~	0.	0.0.0
emperatur	IP-A	dresse:	172 . 29	9 . 10 .			
Interne Temperatur (°C):	Neta	-Maske:	255 . 25	5.255.0		0000	1/00/00-01:32:08
Temperatur Alarm freigegeber	Gate		0.0	. 0 . 0		78.	47 . 136 . 197
Temperatur Schwelle [°C]:						+1:00	~
NMP.Finstellungen		Update		Ändern			
			1			In Betrie	h
Beed Community				Kanal Statu	s.	NICHT a	ille OK
Write Community				HE Penel:		0K	
Trap Community:				NIT Quelle:		NICHT V	rorhanden
				SNTP Statu:	x.	NICHT s	ynchronisiert

MAC-Adresse des gewünschten Geräts auswählen (Bild 2). Die neue IP-Adresse eingeben (Bild 3).

Gegebenenfalls die neue Netz-Maske eingeben (Bild 3). Gegebenenfalls das neue Gateway eingeben (Bild 3). Auf "Ändern" klicken um die neuen Daten zu übernehmen. Das Fenster wird geschlossen und die Änderung bestätigt.

Mit dem Button "Update" können Sie die Daten erneut auslesen (Bild 4).

💰 WISI Streamline Edge QAM	
Datei Extras Hilfe	
Finstellunger	
Kommunika	tion Alleemein
	Palgonom
Verbindu	
IP-Adre	sse: 172, 23, 10, 210 Automatisch verbinden
Read C	ommunity: public Max. Anzahl OIDs: 10
Write C	ommunity: private
SNMP M	anager
Trap-En	npfänger aktiviert
	OK Abbrechen Übernehmen
172.29.10.210	
Verbindung	
IP-Adresse Read Community	IP-Adresse des Geräts eingeben
Write Community	private
Automatisch Verbinden	Ein / Aus
	10
SNMP Manager	
Irap-Emplanger aktiviert	EIN /Aus
OK	Änderungen werden gesnei
UK	chert, Fenster wird geschlossen
Abbrechen	Fingaben werden verworfen
	und Fonstor wird goschlassen
Übernehmen	und Fenster wird geschlossen Änderungen werden gespei-

🛞 WISI Streamline Edge QAM	
Datei Extras Hilfe	
Datei Extras Hilfe	
OK Abbrechen Übernehmen	

#### Sprachen

German, English

### Detallierte Fehleranzeige

Ballon Hints anzeigen	
Anzeigedauer (ms)	

Schliessen Auslesen Speichern Ein / Aus 2000

Anwendung Beeenden Gerätedaten auslesen Änderungen speichern

## Software - Allgemein

🖉 WISI Streamline Edge QAM			E	
Datei Extras Hilfe				2024U
Aligemein Lingang 14 Lingar	ng 58 Ausgang Ausgang 18	NIT Status 14 Status	58 Log	
a link	to the future			
Produktdaten		-Netzwerk-Einstellungen-		-
Artikelnummer:	DQ800-AC	MAC-Adresse:	00:1E:17:00:01:60	
Seriennummer:	08001639	IP Adresse:	172 . 29 . 10 . 212	
Hardware Revision:	03	Netzmaske:	255 . 255 . 0 . 0	
Firmware Version:	2.10	Gateway:	0.0.0.0	
Temperatur		Zeit-Einstellungen		3
Interne Temperatur [*C]:	42,0	Datum / Uhrzeit:	0000/00/00-00:00:53	
Temperatur Alarm freigegel	pen 🗌	SNTP Server:	0.0.0.0	
Temperatur Schwelle [°C]:	60,0	Zeitzone:	+2:00	
SNMP-Einstellungen		Gesamt Status		-
SNMP Manager:	0.0.0.0	Geräte Status:	In Betrieb	
Read Community:		Kanal Status:	Alle OK	
Write Community:		HF Pegel:	OK	
Trap Community:		NIT Quelle:	NICHT vorhanden	
		SNTP Status:	NICHT synchronisiert	
Schliessen 172.29.10.212			<u>A</u> uslesen <u>S</u> peiche	ern
roduktdaten		Netz	zmaske	An
rtikelnummer	Geräte Artikelnum	mer Gate	eway	IP-
eriennummer ardware Revision	Geräte-Sereinnum Stand der Hardwar	ner e <b>Zeit</b>	-Einstellungen	٨٢
inivare version	Stand der FirmWare	SNT	P Server	IP-
				- ·

Temperatur Intere Temperatur (°C) Temperatur Alarm freigeben Temperaturschwelle

#### SNMP-Einstellungen

SNMP Manager Read Community Write Community Trap Community

#### Netzwerk-Einstellungen

MAC-Adresse IP-Adresse

Temperatrur im Gerät Freigeben / Nicht Freigeben Einstellen der Alarmschwelle

IP-Adresse SNMP-Manager Read Comm. SNMP-Manager Write Comm. SNMP-Manager Trap Comm. SNMP-Manager

Anzeige MAC-Adresse Anzeige IP-Adresse

Zeitzone

#### **Gesamt Status**

Geräte-Status Kanal-Status HF-Pegel NIT-Quelle **SNTP-Status** 

Schliessen Auslesen Speichern

ige Netzmaske

lresse Gateway einstellen

elles Datum / Uhrzeit resse SNTP-Server Einstellung der Zeitzone

Anzeige Geräte-Status Anzeige Kanal-Status Anzeige HF-Pegel-Status Anzeige NIT-Quellen-Status Anzeige SNTP-Status

Anwendung Beeenden Gerätedaten auslesen Änderungen speichern

# Software - Eingang 1...4

💰 WISI Streamline Edge Q	ам			-03
Datei Extras Hilfe				
Allegencia Eingang 1 4	2   🗄   i	NIT Chabus 1. 4 Chabus	E Q Lea	
	Ingang 56 Ausgang Ausgang 16	INTER Status 14 Status	s 58 Log	
Kanal 1		-Kanal 2		
Filter Quell IP:		Filter Quell IP:	0.0	. 0 . 0
Filter Quell Port:	0	Filter Quell Port:		0
Filter Ziel IP:	0.0.0.0	Filter Ziel IP:	0.0	. 0 . 0
Filter Ziel Port:	0	Filter Ziel Port:		0
NIT Anpassung		NIT Anpassung		
Jitter Toleranz [ms]:	0	Jitter Toleranz [ms]:		0
Kanal 3		Kanal 4		
Filter Quell IP:	0.0.0.0	Filter Quell IP:	0.0	. 0 . 0
Filter Quell Port:	0	Filter Quell Port:		0
Filter Ziel IP:	0.0.0.0	Filter Ziel IP:	0.0	. 0 . 0
Filter Ziel Port:	0	Filter Ziel Port:		0
NIT Anpassung		NIT Anpassung		
Jitter Toleranz [ms]:	0	Jitter Toleranz [ms]:		0
Schliessen			Auslesen	<u>Speichern</u>
172.29.10.212	Fehler beim Auslesen der Daten!			.8
<b>Kanal 14</b> Filter Quell IP Filter Quell Port Filter Ziel IP Filter Ziel Port	Ein / Aus, Quell IP I einstellen Ein / Aus, Quell Por einstellen Ein / Aus, Ziel IP Fil Ein / Aus, Ziel Port einstellen	Filter rt Filter ter einstellen Filter		
NIT Anpassung Jitter-Toleranz (ms)	Ein / Aus Jitter-Toleranz einst (empfohlen 100 m	tellen s)		
Schliessen Auslesen Speichern	Anwendung Beeer Gerätedaten ausles Änderungen speich	nden sen hern		

# Software - Eingang 5...8

💰 WISI Streamline Edge QAM				
Datei Extras Hilfe				
Allgemein Fingeng 1, 4 Eing	iang 5,8 Aurgang Aurgang 1,8	NIT Status 1 4 Statu	.5.8	
			3 00	
Kanal 5		Kanal 6	_	
Filter Quell IP:		Filter Quell IP:		0.0.0.0
Filter Quell Port:	0	Filter Quell Port:		0
Filter Ziel IP:	235 . 1 . 1 . 5	Filter Ziel IP:	~	235 . 1 . 1 . 6
Filter Ziel Port:	1234	Filter Ziel Port:	<b>V</b>	1236
NIT Anpassung		NIT Anpassung		
Jitter Toleranz [ms]:	100	Jitter Toleranz [ms]:		100
Kanal 7		Kanal 8		
Filter Quell IP:	0.0.0.0	Filter Quell IP:		0.0.0.0
Filter Quell Port:	0	Filter Quell Port:		0
Filter Ziel IP:	235.1.1.7	Filter Ziel IP:		235 . 1 . 1 . 10
Filter Ziel Port:	1237	Filter Ziel Port:		1234
NIT Anpassung		NIT Anpassung		
Jitter Toleranz [ms]:	100	Jitter Toleranz [ms]:		100
S <u>c</u> hliessen 172.29.10.212				<u>A</u> uslesen <u>S</u> peichern
Kanal 58				
Filter Quell IP Filter Quell Port	Ein / Aus, Quell IP F einstellen Fin / Aus, Quell Poi	Filter rt Filter		
	einstellen			
Filter Ziel IP Filter Ziel Port	Ein / Aus, Ziel IP Fil Ein / Aus, Ziel Port einstellen	ter einstellen Filter		
NIT Anpassung Jitter-Toleranz (ms)	Ein / Aus Jitter-Toleranz einst (empfohlen 100 m	tellen s)		
Schliessen Auslesen Speichern	Anwendung Beeer Gerätedaten ausles Änderungen speich	nden sen hern		

## Software - Ausgang



#### **HF-Ausgang**

Ausgang aktiv HF-Pegel Summe (dBµV) HF Alarm freigeben HF-Pegelalarmschwelle Ein / Aus Anzeige HF-Pegel Summe Freigeben / Nicht Freigeben HF-Pegelalarmschwelle einstellen

#### Frequenzbelegung

Schliessen Auslesen Speichern einstellen Ansicht vergrößern

Ansicht verkleineren

Anwendung Beeenden Gerätedaten auslesen Änderungen speichern

# Software - Ausgang 1...8

💰 WISI Streamline Edge QAM				
Datei Extras Hilfe				
🗣 🖊 • 🛛 🦺 🐮 🔟 🗎	[ i			
Allgemein Eingang 14 Eingang 5	8 Ausgang Ausgang 18	NIT Status 14	Status 58 Log	
Kanal 18				
Symbolrate [kSym/s]:	6900	Standard:	ITU-T J.83 Annex A (DVE 🗸	
Kanal 14				
Kanalraster [kHz]:	3000 HF Pegel (dBμV):	95,0	QAM Modus: 256 QAM 🗸	
Kanal 1		Kanal 2		
Kanal aktiv		Kanal aktiv		
Mittenfrequenz [kHz]:	832000	Mittenfrequer	nz [kHz]: 840000	
Kanal 3		Kanal 4		
Kanal aktiv		Kanal aktiv		
Mittenfrequenz [kHz]:	848000	Mittenfrequer	az [kHz]· 856000	
Kanal 58				
Kanalraster (kHz)	3000 HF Pegel [dBuV]	95,0	QAM Modus: 256 QAM 🗸	
Kanal 5		Kanal 6		
Kanal aktiv		Kanal aktiv		
Mittenfrequenz [kHz]:	200000	Mittenfrequer	208000	
Kanal /		Kanal 8		
Kanal aktiv	216000	Kanal aktiv	224000	
Mittenfrequenz [kHz]:	210000	Mittenfrequer	nz [kHz]:	
S <u>c</u> hliessen			<u>A</u> uslesen <u>S</u> pei	ichern
172.29.10.212				
Kanal 1 8			Kanal 5 8	
Symbolrate (kSym/s)	4480 - 7000		Kanalraster (kHz)	5000 - 8000
Standard	ITU-T J.83 Annex A	, ITU-T J.83	HF-Pegel (dBµV)*	1 Kanal aktiv 84-104
Kanal 1 /	Annex B, IIU-I J.83	3 Annex C		2 Kanäle aktiv 84-101
Kanalraster (kHz)	5000 - 8000			4 Kanäle aktiv 84-98 d
HF-Pegel (dBµV)*	1 Kanal aktiv 8	84-104 dBµV		8 Kanäle aktiv 84-95 d
	2 Kanäle aktiv 8	84-101 dBµV	QAINI-IVIOUUS	52-, 04-, 126-, 250-QAIVI
	4 Kanäle aktiv 8	84-98 dBµV	Kanal 5,6,7,8	
	8 Kanäle aktiv 8	34-95 dBµV	Kanal aktiv	Aktiviert / Deaktiviert
	JZ-, U4-, 128-, 250	Ρ-ΟΑΙΛΙ	witternrequenz (KHZ)	43000-802000
Kanal 1,2,3,4			Schliessen	Anwendung Beeenden
Kanal aktiv	Aktiviert / Deaktivie	ert	Auslesen	Gerätedaten auslesen
	43000-002000		Speicherff	Anderungen speichem

\*max. Pegeldifferenz von Kanal 1...4 zu Kanal 5...8: 6 dB

84-104 dBµV 84-101 dBµV

84-98 dBµV

84-95 dBµV

# Software - NIT

💰 WISI Streamline Edge	QAM			
Datei Extras Hilfe				
🕼 💉 - 暴 🐮	<b>D</b>	]   i		
Allgemein Eingang 14	Eingang	58 Ausgang Ausgang 18 NIT	Status 14 Status 58 Log	1
NIT Anpassung				
Anpassung aktiv				
NIT PID:		16		
Filter Quell IP:		0,0,0,0		
Filter Quell Port:		0		
Filter Ziel IP:		224 . 2 . 2 . 2		
Filter Ziel Port:		9000		
Schliessen				Auslesen Speichern
172.29.10.212	1			

D

### NIT Austausch

Anpassung aktiv	Ein / Aus
NIT PID	NIT PID eingeben
Filter Quell IP	Ein / Aus, Quell IP Filter einstellen
Filter Quell Port	Ein / Aus, Quell Port Filter einstellen
Filter Ziel IP	Ein / Aus, Ziel IP Filter einstellen
Filter Ziel Port	Ein / Aus, Ziel Port Filter einstellen
Schliessen Auslesen Speichern	Anwendung Beeenden Gerätedaten auslesen Änderungen speichern

## Software - Status Kanal 1...4

Kanal 2	
Status:	
IP Eingangssignal:	k 📒
PCR:	
m/s]: Eingangsdatenrate	e [Sym/s]: 0
n: Datenraten Änderu	rungen: 0
0.00 Max. Jitter [μs]:	0.00
0 Jitter Fehler:	0
0 PCR Fehler:	0
1 Neustarts:	1
t: Einstellungen fehle	lerhaft: 0
Kanal 4	
Status:	
IP Eingangssignal:	k 🚺
PCR:	
m/s]: Eingangsdatenrate	e [Sym/s]: 0
n: Datenraten Änderu	rungen: 0
0.00 Max. Jitter [µs]:	0.00
0 Jitter Fehler:	0
0 PCR Fehler:	0
1 Neustarts:	1
t: Einstellungen fehle	lerhaft: 0
t:	lerhaft:

Status\* **IP-Eingangssignal** 

PCR Eingangsdatenrate (Sym./s) Datenraten Änderungen

Max. Jitter (µs) Jitter-Fehler PCR-Fehler Neustarts Einstellungen fehlerhaft

Schliessen Auslesen Speichern

Anzeige Gestamtstatus Anzeige IP-Eingangssignalstatus Anzeige PCR-Status Anzeige Eingangsdatenrate Anzeige der Datenratenänderungen Anzeige Max. Jitter Anzahl der Jitter-Fehler Anzahl der PCR-Fehler Anzahl der Neustarts

Anzeige des Fehlercodes

Anwendung Beeenden Gerätedaten auslesen Änderungen speichern

Ausgang

# Software - Status Kanal 5...8

	Status: IP Eingangssignal: PCR:	
	Status: IP Eingangssignal: PCR:	-
	IP Eingangssignal: PCR:	
	PUR:	
0	E: 1	0
0	Eingangsdatenrate [Sym/s]:	0
0.00	Datenraten Anderungen:	0.00
0.00	Max. Jitter [µs]:	0.00
0	Jitter Fehler:	0
1	PCR Fehler:	1
	Neustarts:	
	Kanal 8	
	Status:	
	IP Eingangssignal:	
	PCR:	
0	Eingangsdatenrate [Sym/s]:	0
0	Datenraten Änderungen:	0
0.00	Max. Jitter [µs]:	0.00
100		0
U	Jitter Fehler:	1.3
0	PCR Fehler:	0
0	PCR Fehler:	0
		0       Datenraten Änderungen:         0       Max. Jitter [µs]:         0       Jitter Fehler:         0       PCR Fehler:         1       Neustarts:         Einstellungen fehlerhaft:       Kanal 8         Status:       IP Eingangssignal:         IP Eingangssignal:       PCR:         0       Datenraten Änderungen:         0       Max. Jitter [µs];

Kanal 5...8 Status\* IP-Eingangssignal

PCR Eingangsdatenrate (Sym./s) Datenraten Änderungen

Max. Jitter (µs) Jitter-Fehler PCR-Fehler Neustarts Einstellungen fehlerhaft

Schliessen Auslesen Speichern  Anzeige Gestamtstatus
 Anzeige IP-Eingangssignalstatus
 Anzeige PCR-Status
 Anzeige Eingangsdatenrate
 Anzeige der
 Datenratenänderungen
 Anzeige Max. Jitter
 Anzahl der Jitter-Fehler
 Anzahl der PCR-Fehler
 Anzahl der Neustarts

Anzeige des Fehlercodes

Anwendung Beeenden Gerätedaten auslesen Änderungen speichern \*nur aktiv bei eingeschaltetem RF-Ausgang

# Software - Log

💰 WISI Streamline Edge QAM 📃 🔲
Datei Extras Hilfe
🕼 🖉 🕶 🎄 🅦 🛅 📄 🗉
Allgemein Eingang 1.4 Eingang 5.8 Ausgang Ausgang 1.8 NIT Status 1.4 Status 5.8 Log
<pre>218:0000/00/00-00:16:23&gt;No input present at Channel 3. 219:0000/00/00-00:16:23&gt;No input present at Channel 1. 220:0000/00/00-00:19:02&gt;No Pcr's present at Channel 1. 221:0000/00/00-00:19:02&gt;No Pcr's present at Channel 2. 223:0000/00/00-00:19:02&gt;No Pcr's present at Channel 1. 224:0000/00/00-00:19:03&gt;No Pcr's present at Channel 8. 225:0000/00/00-00:19:03&gt;No Pcr's present at Channel 6. 227:0000/00/00-00:19:03&gt;No Pcr's present at Channel 7. 228:0000/00/00-00:19:03&gt;No Pcr's present at Channel 6. 227:0000/00/00-00:19:03&gt;No Pcr's present at Channel 6. 227:0000/00/00-00:19:03&gt;No Pcr's present at Channel 6. 227:0000/00/00-00:21:13&gt;No input present at Channel 4. 228:0000/00/00-00:21:13&gt;No input present at Channel 5. 228:0000/00/00-00:21:13&gt;No input present at Channel 7. 238:0000/00/00-00:21:12&gt;No input present at Channel 8. 238:0000/00/00-00:21:12&gt;No input present at Channel 1. 238:0000/00/00-00:21:12&gt;No input present at Channel 1. 238:0000/00/00-00:01:02&gt;Channel 7 Restarted; counter : 1 244:0000/00/00-00:01:02&gt;Channel 7 Restarted; counter : 1 244:0000/00/00-00:01:02&gt;Channel 3 Restarted; counter : 1 244:0000/00/00-00:01:02&gt;Channel 1 Restarted; counter : 1 244:0000/00/00-00:01:02&gt;Channel 3 Restarted; counter : 1 245:0000/00/00-00:01:02&gt;Channel 3 Restarted; counter : 1 245:0000/00/00-00:01:02&gt;Channel 3 Restarted; counter : 1 245:0000/00/00-00:01:02&gt;Channel 1 Restarted; counter : 1 235:0000/00/00-00:01:02&gt;Channel 1 R</pre>
<u>Schliessen</u> <u>Auslesen</u> <u>Speichern</u>
172.29.10.212

### Log

Statusmeldungen mit Zeitangabe

Löschen der angezeigten Log-Daten Schliessen Auslesen Speichern Änderungen speichern

# Software - Graphical user interface



### **Operating gents**

1		Close application
2	1	Connect
3	alle -	Search network
4	1	Change IP adress
5	D	n.n.
6		General settings
7	i.	Software information

### Software - Search network

Click "Search network"button - a new window opens (Fig. 1)









Select option "Broadcast", then click the "Search" button (Fig. 2).

Now the OE01 available in the network should be visible (Fig. 3)

To select the requested device click the respective IP adress and confirm the selection (Fig. 4).

### Software - Change IP adress

Click the "Change IP adress" button - a new window opens (Fig. 1)





🎖 WISI Streamline Edge QAM			
ile Extras Help			
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General Input 14 Input 58	Output Output 18 NIT	Status 14 Status 58 L	og
a lin	k to the future		
Product Data		Network Settings	
Device Type:	DQ800-AC	M0C-0ddress:	00:1E:17:00:01:1A
Serial Number:	Change IP #ddress	Minic Address.	172 . 29 . 10 . 211
Hardware Revision:			255 . 255 . 255 . 0
Firmware Version:	MAC-Address: 00-	1E-17-00-01-1A 💙	0.0.0.0
Temperature	IP-Address: 17	2 . 29 . 10 . 211	
Internal Temperature [°C]:	Net-Mask: 25	5 .255 .255 . 0	0000/00/06-19:15:37
Temperature Alarm enabled	Gatemay:	.0.0.0	78 . 47 . 136 . 197
Temperature Threshold [°C	]:	Chapter	+1:00
SNMP Settings	Copuse 1	Change	
SNMP Manager:	0.0.0.0	Device state:	Operating
Read Community:		Channel State:	NOT all OK
Write Community:		RF Level:	ОК
Trap Community:		NIT Source:	NOT present
		SNTP Status:	Not synchronized
Close			Reload Save
172.29.10.211			đ

. . . 🚇 💉 - 🎄 🕲 📴 🔋 i 3 General Input 1..4 Input 5..8 Output Output 1..8 NIT Status 1..4 Status 5..8 Log ... a link to the future ork Setting: DQ800-AC 00:1E:17:00:01:1A MAC-Address 172 . 29 . 10 . 211 255 . 255 . 255 . 0 Hardware Revision: 0.0.0.0 MAC-Address: 00-1E-17-00-01-1A 172 . 29 . 10 . | IP-Address 0000/00/06-19:15:37 255 . 255 . 255 . 0 Internal Temperature [°C]: Net-Mask: 78 . 47 . 136 . 197 Temperature Alarm enabled 0 . 0 . 0 . 0 Gate +1:00 Temperature Threshold [°C]: 2 Update Change Ω Operating Device state: NOT all OK Channel State OK RF Level: NOT present NIT Source: Not synchronized SNTP Status Reload Save

Select the MAC adress of the requested device (Fig. 2). Set the new IP adress (Fig. 3). If necessary change the Net-Mask (Fig. 3). If necessary change the Gateway (Fig. 3). Click the "Change2button to accept the new data.

The window closes and the changes are confirmed.

To readout the data again click the "Update" button (Fig. 4).

💰 WISI Streamline Edge QAM		
File Extras Help		
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Colline .		
Com	munication General	
Co	nnection	
I	P-Address: 1/2 . 29 . 10 .211 Auto connect	
F	tead Community: public OIDs Count: 10	
V	Write Community: private	
SN	MP Manager	
Т	rap-Receiver active	
	OK Abort Apply	
172.29.10.211		
Connection		
IP-Adress Read Community	Set IP-Adress of the device	
Write Community	private	
Auto connect	on / off 10	
SNMP Manager Trap-Receiver active	on / off	
ОК	Changes are saved, the window closes	
Abort	Changes are discarded,	
Apply	the window closes Changes are saved	
, גיאלי	the window stays open	

🖁 WISI Streamline Edge QAM	
File Extras Help	
🕼 🖉 🕶 🌆 🖌 🔛 🔒 🔒	
Settings 🛛 🔀	
Communication General	
Languages	
English	
Detailed Error Descriptions	
Show Balloon-Hints Duration [ms]: 2000	
OK Abort Apply	
172.29,10.211	

### Languages

German, English

### **Detailed Error Description**

Show Balloon-Hints Duration (ms)	on / off 2000
ОК	Changes are saved, the window closes
Abort	Changes are discarded, the window closes
Apply	Changes are saved, the window stays open

### Software - general

al Input 14 Input 58	Output Output 18	NIT	Status 14	Status 58	Log	1
uisi a link	to the future	3				
oduct Data			Netwo	k Settings		
Device Type:	DQ800-AC		MA	-Address:		00:1E:17:00:01:1A
Serial Number:	08001550		IP 4	ddress:		172 . 29 . 10 . 211
Hardware Revision:	03		Net	mask:		255 . 255 . 255 . 0
Firmware Version:	2.10		Gat	eway:		0.0.0.0
mperature			Time S	ettings		
Internal Temperature [°C]:	47,0		Dat	e (Time:		0000/00/06-19:15:37
Temperature Alarm enabled			SN1	P Server:		78 . 47 . 136 . 197
Temperature Threshold [°C]:	60,0		Tim	e Zone:		+1:00
MP Settings			Global	Status		
SNMP Manager:	0.0.0.	0	Dev	ice state:		Operating
Read Community:			Cha	nnel State:		NOT all OK
Write Community:			RF	.evel:		ок
Trap Community:			NIT	Source:		NOT present
			SN	P Status:		Not synchronized
			L			

#### Product Date

Device Type Serial Number Hardware Revision Firmware Version

#### Temperature

Internal Temperature (°C) Temperature Alarm enabled Temperature Threshold

#### **SNMP Settings**

SNMP Manager Read Community Write Community Trap Community

#### Network Settings

MAC-Adress IP-Adresse Device Type Device Serial number Hardware Version Firmware Version

Temperature in device enabled / disabled Set Temperature Threshold

Set IP-Adress SNMP Manager Read Comm. SNMP Manager Write Comm. SNMP Manager Trap Comm. SNMP Manager

Indication of MAC Adress Indication of IP Adress Netmask Gateway

### **Time Settings**

Date/Time SNTP Server Time Zone

#### **Global Status**

Device State Channel State RF Level NIT Source SNTP Status

Close Reload Save Indication of Netmask Set Gateway IP Adress

actual Date and Time Set SNTP-Server IP Adress Set Time Zone

Indication of Device Status Indication of Channel Status Indication of RF Level Status Indication of NIT Source Indication of SNTP Status

### Software - Input 1...4

Tai Input 58 C	oucput    Oucput 18    NIT	Status 14	Status 58	LOG	
hannel 1		Channel	2		
Filter Source IP:	0.0.0.0	Filter	Source IP:		0.0.0.0
Filter Source Port:	0	Filter	Source Port:		0
Filter Destination IP: 🔽	239 . 255 . 85 . 99	Filter	Destination II	e: 🔽	235 . 1 . 1 . 1
Filter Destination Port: 🗹 🛛	1235	Filter	Destination P	ort: 🗹	1234
NIT Replacement		NIT F	eplacement		
Jitter Tolerance [ms]:	100	Jitter	Tolerance (m	s]:	100
hannel 3			4		
Filter Source IP:	0.0.0.0	Filter	Source IP:		0.0.0.0
Filter Source Port:	0	Filter	Source Port:		0
Filter Destination IP: 🔽	235 . 1 . 1 . 11	Filter	Destination II	e: 🗹	235 . 1 . 1 . 4
Filter Destination Port: 🗹 🗍	1234	Filter	Destination P	ort: 🗹	1234
NIT Replacement		NIT F	eplacement		
Jitter Tolerance [ms]:	100	Jitter	Tolerance (m	s]:	100
Glose					Reload Save

Filter Source IP Filter Source Port Filter Destination IP Filter Destination Port NIT Replacement Jitter Tolerance (ms) on / off, set Source IP Filter on / off, set Source Port Filter on / off, set Destination IP Filter on / off, set Destination Port on / off Set Jitter Tolerance (recommended 100 ms)

Close Reload Save

### Software - Input 5...8

hannel 5		Channel 6	
Filter Source IP:	0.0.0.0	Filter Source IP:	0.0.0.0
Filter Source Port:	0	Filter Source Port:	0
Filter Destination IP:	239 . 255 . 85 . 99	Filter Destination IP:	239 .244 . 1 . 30
Filter Destination Port: 🔽	1234	Filter Destination Port: 🗹	1234
NIT Replacement		NIT Replacement	
Jitter Tolerance [ms];	100	Jitter Tolerance [ms]:	100
Thannel 7		Channel 8	
Filter Source IP:	0.0.0.0	Filter Source IP:	0.0.0.0
Filter Source Port:	0	Filter Source Port:	0
Filter Destination IP:	239 .244 . 1 .130	Filter Destination IP:	235 . 1 . 1 . 3
Filter Destination Port: 🗹	1234	Filter Destination Port: 💌	1234
NIT Replacement		NIT Replacement	
Jitter Tolerance [ms]:	100	Jitter Tolerance [ms]:	100
Close			Reload Save

Filter Source IP Filter Source Port Filter Destination IP Filter Destination Port NIT Replacement Jitter Tolerance (ms) on / off, set Source IP Filter on / off, set Source Port Filter on / off, set Destination IP Filter on / off, set Destination Port on / off Set Jitter Tolerance (recommended 100 ms)

Close Reload Save

## Software - Output



#### **HF Output**

Output active
RF Level Total (dBµV)
RF Alarm enabled
RF Alarm Level Threshold

on / off Indication of RF Level Total enabled / disabled Set RF Alram Level Threshold

#### **Frequency Allocation**

+	
-	
Close	

Reload

Save

Zoom in Zoom out

## Software - Output 1...8

VISI Streamline Edge QAM	
Extras Help	
eral Input 14 Input 58 Output Output 18 NIT	Status 14 Status 58 Log
Channel 18	
Symbolrate [kSym/s]: 6900	Standard: ITU-T J.83 Annex A (DVB 🗸
Channel 14	
Chappel spacing [kHz]: 8000 RE Level [dBuV]:	98,0 OAM Mode: 256 QAM
Channel 1	Channel 2
Channel active	Channel active
Centerfrequency [kHz]: 800000	Centerfrequency [kHz]: 808000
Channel 3	Channel 4
Channel active	Channel active
Centerfrequency [kHz]: 816000	Centerfrequency [kHz]: 824000
Channel spacing [kHz]: 8000 RF Level [dBµV]:	98,0 QAM Mode: 64 QAM
Channel active	Channel active
Centerfrequency [kHz]: 600000	Centerfrequency [kHz]: 608000
Channel 7	Channel 8
Channel active	Channel active
Centerfrequency [kHz]: 616000	Centerfrequency [kHz]: 624000
<u>C</u> lose 2.29.10.211	Reload Save
nnel 18	Channel 58
bolrate (kSym/s) 4480 - 7000	Channelspacing (kHz)
aara IIU-I J.83 Annex A	A, IIU-IJ.83 RF Level (dBµV)*

#### Channel 1...4

Channelspacing (kHz) RF Level (dBµV)\*

#### QAM Mode

Channel 1,2,3,4 Channel active Centerfrequency (kHz) Annex B, ITU-T J.83 Annex C

### 5000 - 8000 1 Channel active 84-104 dB $\mu$ V 2 Channel active 84-101 dBµV 4 Channel active 84-98 dBµV 8 Channel active 84-95 dBµV 32-, 64-, 128-, 256-QAM

active / inactive 45000-862000

#### QAM Mode

Channel 5,6,7,8 Channel active Centerfrequency (kHz)

Close Reload Save

- 8000 annel active 84-104 dBµV 2 Channel active 84-101 dBµV 4 Channel active 84-98 dBµV 8 Channel active 84-95 dBµV 32-, 64-, 128-, 256-QAM

active / inactive 45000-862000

Closes the application Reloads the device data Saves the changes

\*max. level differency between Channel 1...4 and Channel 5...8: 6 dB



## Software - NIT

🔮 WISI Streamline Edge QAM			
File Extras Help			
🖡 💉 👶 🛍 🗍	i		
General Input 14 Input 58	Output Output 18 NIT	Status 14 Status 58 Log	
NIT Replacement		]	
Replacement active			
NIT PID:	16		
Filter Source IP:	0.0.0.0		
Filter Source Port:	0		
Filter Destination IP: 🗹	239 .255 .75 .99		
Filter Destination Port: 🗹	1234		
		J	
		Rela	oad <u>S</u> ave
172.29.10.211			.d

#### **NIT Replacement**

Replacement active
NIT PID
Filter Source IP
Filter Source Port
Filter Destination IP
Filter Destination Port

Close Reload Save on / off set NIT PID on / off, set Source IP Filter on / off, set Source Port Filter on / off, set Destination IP Filter on / off, set Destination Port Filter

# Software - Status Channel 1...4

Chapped 1		Channel 2	
Chalmer I		Chalmer 2	
Status:		Status:	
IP Input Signal:		IP Input Signal:	
PCR:	0	PCR:	0
Input Datarate [Sym/s]:	0	Input Datarate [Sym/s]:	0
Datarate Changes:	0.00	Datarate Changes:	0.00
Max. Jitter [µs]:	0.08	Max. Jitter [µs]:	0.00
Jitter Errors:	0	Jitter Errors:	0
PCR Errors:		PCR Errors:	0
Restarts:	1	Restarts:	0
-Channel 3		Channel 4	
Status:		Status:	-
IP Input Signal:		IP Input Signal:	
PCR:		PCR:	
Input Datarate [Sym/s]:	0	Input Datarate [Sym/s]:	0
Datarate Changes:	0	Datarate Changes:	0
Max. Jitter [µs]:	0.00	Max. Jitter [us]:	0.00
Jitter Errors:	0	Jitter Errors:	0
PCR Errors:	0	PCR Errors:	0
Restarts:	0	Restarts:	0
Settings incorrect:	0	Settings incorrect:	0

Channel 1.. Status\*

IP Input Signal

- PCR
- Input Datarate (Sym./s) Datarate changes Max. Jitter (µs) Jitter Errors PCR Errors Restarts Settings incorrect

Close Reload Save

- Indication of Channel Status
- Indication of IP input signal status

Indication of PCR status
 Indication of input datarate
 Number of datarate changes
 Indication of max. jitter
 Number of jitter errors
 Number of PCR errors
 Number of restarts
 Indication of error codes

Closes the application Reloads the device data Saves the changes

\*only active with switched on RF output

## Software - Status Channel 5...8

Status:       Image: Channel 5         Status:       Image: Channel 5         PCR:       Image: Channel 5         Input Datarate [Sym/s]:       Image: O         Datarate Changes:       Image: O         Max. Jitter [µs]:       Image: O         Jitter Errors:       Image: O         PCR:       Image: O         Imput Datarate [Sym/s]:       Image: O         Datarate Changes:       Image: O         Imput Datarate [Sym/s]:       Image: O         Datarate Changes:       Image: O         Imput Datarate [Sym/s]:       Image: O         Imput Datarate [Sym/s]:       Imput D         Imput Datarate [Sym/s]:       Imput D	Channel F.		Channel C	
Status: IP Input Signal:   PCR:   Input Datarate [Sym/s]:   O   Datarate Changes:   O   Max. Jitter [µs]:   Jitter Errors:   PCR Errors:   Restarts:   Settings incorrect:   O   Status:   IP Input Signal:   PCR:   Input Datarate [Sym/s]:   O   O   Status:   IP Input Signal:   PCR:   Input Datarate [Sym/s]:   O   O   Status:   IP Input Signal:   PCR:   Input Datarate [Sym/s]:   O   Datarate Changes:   O   O   Status:   IP Input Signal:   PCR:   Input Datarate [Sym/s]:   O   Datarate (Sym/s]:   O   PCR:   Input Datarate (Sym/s]:   O   Datarate (Sym/s]:   O   Datarate (Sym/s]:   O   Datarate (Sym/s]:   O   Datarate (Sym/s):   O   PCR:   Input Datarate (Sym/s):   O </th <th>Channel 5</th> <th>11.44</th> <th>Channel 6</th> <th>-</th>	Channel 5	11.44	Channel 6	-
IP Input Signal:   PCR:   Input Datarate [Sym/s]:   O   Datarate Changes:   O   Max. Jitter [µs]:   Jitter Errors:   PCR Errors:   Restarts:   Settings incorrect:   O   Status:   IP Input Signal:   PCR:   Input Datarate [Sym/s]:   O   O   Status:   IP Input Signal:   PCR:   Input Datarate [Sym/s]:   O   O   Status:   IP Input Signal:   PCR:   Input Datarate [Sym/s]:   O   Datarate Changes:   O   O   Status:   IP Input Signal:   PCR:   Input Datarate [Sym/s]:   O   Datarate Changes:   O   O   Status:   IP Input Signal:   PCR:   Input Datarate [Sym/s]:   O   Datarate Changes:   O   Max. Jitter [µs]:   Jutter Errors:   O   Max. Jitter [µs]:   O.00   Max. Jitter [µs]:   O.00   Max. Jitter [µs]:   O   O   O   PCR Errors:   O   PCR Err	Status:		Status:	
PCR:   Input Datarate [Sym/s]:   Datarate Changes:   Max. Jitter [µs]:   Jitter Errors:   PCR Errors:   Restarts:   Settings incorrect:   Iput Datarate [Sym/s]:   O   PCR:   Iput Datarate [Sym/s]:   O   O   PCR:   Iput Datarate [Sym/s]:   O   Datarate Changes:   O   Max. Jitter [µs]:   Iput Datarate [Sym/s]:   O   Datarate Changes:   O   Iput Datarate [Sym/s]:   O   Datarate Changes:   O   Max. Jitter [µs]:   Iput Datarate [Sym/s]:   O   Datarate Changes:   O   Max. Jitter [µs]:   O   Datarate Changes:   O   Max. Jitter [µs]:   O   Datarate Changes:   O   Max. Jitter [µs]:   O   Datarate Changes:   O   PCR Errors:   O   PCR Errors: <th>IP Input Signal:</th> <th></th> <th>IP Input Signal:</th> <th></th>	IP Input Signal:		IP Input Signal:	
Input Datarate (sym/s):   Datarate Changes:   0   Max. Jitter [µs]:   0.00   Jitter Errors:   0   PCR Errors:   0   Settings incorrect:   0   Status:   IP Input Datarate (Sym/s):   0   0   Status:   IP Input Signal:   PCR:   0   1   PCR:   0 </th <th>PCR:</th> <th>0</th> <th>PCR:</th> <th>0</th>	PCR:	0	PCR:	0
Datarate Changes:   Max. Jitter [µs]:   Jitter Errors:   PCR Errors:   Restarts:   Settings incorrect:   O   Status:   IP Input Signal:   PCR:   Input Datarate [Sym/s]:   Datarate Changes:   O   Jitter Errors:   O   Status:   IP Input Signal:   PCR:   Input Datarate [Sym/s]:   Datarate Changes:   O   Jitter Errors:   O   PCR Errors:   O   Settings incorrect:   O	Input Datarate [Sym/s]:	0	Input Datarate [Sym/s]:	0
Max. Jitter [Js]:   Jitter Errors:   PCR Errors:   Restarts:   Settings incorrect:   O   Status:   IP Input Signal:   PCR:   Input Datarate [Sym/s]:   Datarate Changes:   Max. Jitter [µs]:   O   Max. Jitter [µs]:   O   Status:   IP Input Signal:   PCR:   Input Datarate [Sym/s]:   Datarate Changes:   O   Max. Jitter [µs]:   O   Jitter Errors:   O   PCR Errors:   O   PCR Errors:   O   PCR Errors:   O   PCR Errors:   O   Settings incorrect:   O   Settings incorrect:   O	Mara 2ktor [un]	0.00	Mary Bitter Fuels	0.00
Jitter Errors:   PCR Errors:   Restarts:   Settings incorrect:   O   Status:   IP Input Signal:   PCR:   Input Datarate (Sym/s):   O   Datarate Changes:   O   Max, Jitter [µs]:   Jitter Errors:   O   PCR Errors:   O   PCR Errors:   O   PCR:   Input Datarate (Sym/s):   O   Datarate Changes:   O   Max, Jitter [µs]:   Jitter Errors:   O   PCR Errors:   O   Restarts:   O   Settings incorrect:   O   Settings incorrect:   O   Settings incorrect:   O	Max, Jitter [µs];	0	Max, Jitter [µs];	0
PCR Errors:   Restarts:   Settings incorrect:   0   Status:   IP Input Signal:   PCR:   Iput Datarate [Sym/s]:   Datarate Changes:   Max. Jitter [µs]:   Other Errors:   PCR Errors:   PCR Errors:   PCR Errors:   O   Settings incorrect:   O   Status:   IP Input Signal:   PCR:   Input Datarate [Sym/s]:   O   Datarate Changes:   O   Max. Jitter [µs]:   O   Settings incorrect:   O   Settings incorrect:   O	DCD Emerge	0	DCD Evene	0
Restarts:   Settings incorrect:   0   Channel 7   Status:   IP Input Signal:   PCR:   Input Datarate [Sym/s]:   Datarate Changes:   0   Max. Jitter [µs]:   0   Jitter Errors:   PCR Errors:   0   Restarts:   0   Settings incorrect:   0   0   Settings incorrect:	PCR Errors:	1	PCR Errors:	0
Channel 7   Status:   IP Input Signal:   PCR:   Input Datarate [Sym/s]:   Datarate Changes:   0   Datarate Changes:   0   Max. Jitter [µs]:   0.00   Jitter Errors:   0   PCR Errors:   0   Settings incorrect:     Channel 8   Status:   IP Input Signal:   IP Input Signal:   IP Input Signal:   PCR:   Input Datarate [Sym/s]:   0   Datarate Changes:   0   Itter Errors:   0   Settings incorrect:     Channel 8   Settings incorrect:     Settings incorrect:	Settings incorrect:	0	Settings incorrect:	0
Status:Status:Status:IP Input Signal:IP Input Signal:IPPCR:PCR:PCR:Input Datarate [Sym/s]:0Datarate Changes:0Datarate Changes:0Max. Jitter [µs]:0.00Jitter Errors:0PCR Errors:0Restarts:0Settings incorrect:0	Channel 7		Channel 8	
IP Input Signal:       IP Input Signal:       IP Input Signal:         PCR:       PCR:       Input Datarate [Sym/s]:       0         Input Datarate [Sym/s]:       0       Input Datarate [Sym/s]:       0         Datarate Changes:       0       Datarate Changes:       0         Max. Jitter [µs]:       0.00       Max. Jitter [µs]:       0.00         Jitter Errors:       0       Jitter Errors:       0         PCR Errors:       0       PCR Errors:       0         Settings incorrect:       0       Settings incorrect:       0	Status:		Status:	
PCR:PCR:Input Datarate [Sym/s]:0Datarate Changes:0Datarate Changes:0Max. Jitter [µs]:0.00Jitter Errors:0DCR Errors:0Restarts:0Settings incorrect:0	IP Input Signal:		IP Input Signal:	
Input Datarate [Sym/s]:0Input Datarate [Sym/s]:0Datarate Changes:0Datarate Changes:0Max. Jitter [µs]:0.00Max. Jitter [µs]:0.00Jitter Errors:0Jitter Errors:0PCR Errors:0PCR Errors:0Restarts:0Restarts:0Settings incorrect:0Settings incorrect:0	PCR:		PCR:	
Datarate Changes:0Datarate Changes:0Max. Jitter [µs]:0.00Max. Jitter [µs]:0.00Jitter Errors:0Jitter Errors:0PCR Errors:0PCR Errors:0Restarts:0Restarts:0Settings incorrect:0Settings incorrect:0	Input Datarate [Sym/s]:	0	Input Datarate [Sym/s]:	0
Max. Jitter [µs]:     0.00     Max. Jitter [µs]:     0.00       Jitter Errors:     0     Jitter Errors:     0       PCR Errors:     0     PCR Errors:     0       Restarts:     0     Restarts:     0       Settings incorrect:     0     Settings incorrect:     0	Datarate Changes:	0	Datarate Changes:	0
Jitter Errors:     0     Jitter Errors:     0       PCR Errors:     0     PCR Errors:     0       Restarts:     0     Restarts:     0       Settings incorrect:     0     Settings incorrect:     0	Max. Jitter [µs]:	0.00	Max. Jitter [µs]:	0.00
PCR Errors:     0     PCR Errors:     0       Restarts:     0     Restarts:     0       Settings incorrect:     0     Settings incorrect:     0	Jitter Errors:	0	Jitter Errors:	0
Restarts:     0     Restarts:     0       Settings incorrect:     0     Settings incorrect:     0	PCR Errors:	0	PCR Errors:	0
Settings incorrect: 0	Restarts:	0	Restarts:	0
	Settings incorrect:	0	Settings incorrect:	0

IP Input Signal

- PCR Input Datarate (Sym./s)
- Datarate changes Max. Jitter (µs) Jitter Errors PCR Errors Restarts Settings incorrect
- Close Reload Save

- Status
- Indication of IP input signal status

Indication of PCR status Indication of input datarate Number of datarate changes Indication of max. jitter Number of jitter errors Number of PCR errors Number of restarts Indication of error codes

Closes the application Reloads the device data Saves the changes

\*only active with switched on RF output

# Software - Log

💰 WISI Streamline Edge QAM	
File Extras Help	
🕼 🖉 🚽 🎄 🅦 🔟 🔛 🗄	
General Toput 1 4 Toput 5 8 Output 1 Output 1 8 NIT Status 1 4 Status 5 8 L00	
<pre>218:000/00/06-18:43:29&gt;No SNTP synchronisation within 60 secs. 219:000/00/06-18:44:33&gt;No input present at Channel 1. 221:000/00/06-18:44:53&gt;No PCr's present at Channel 1. 222:000/00/06-18:44:53&gt;No PCr's present at Channel 5. 223:000/00/06-18:48:34&gt;No SNTP synchronisation within 60 secs. 224:000/00/06-18:49:39&gt;No input present at Channel 5. 226:0000/00/06-18:49:39&gt;No input present at Channel 1. 227:000/00/06-18:50:52&gt;No PCr's present at Channel 1. 227:000/00/06-18:50:53&gt;No PCr's present at Channel 1. 228:0000/00/06-18:50:53&gt;No PCr's present at Channel 1. 229:000/00/06-18:50:53&gt;No SNTP synchronisation within 60 secs. 230:0000/00/06-18:50:53&gt;No PCr's present at Channel 5. 229:0000/00/06-18:50:53&gt;No PCr's present at Channel 5. 230:0000/00/06-18:50:53&gt;No PCr's present at Channel 5. 230:0000/00/06-18:50:53&gt;No PCr's present at Channel 1. 231:0000/00/06-18:50:53&gt;No PCr's present at Channel 5. 235:0000/00/06-18:50:53&gt;No PCr's present at Channel 5. 235:0000/00/06-18:50:53&gt;No PCr's present at Channel 5. 236:0000/00/06-18:50:53&gt;No PCr's present at Channel 5. 237:0000/00/06-18:50:53&gt;No PCr's present at Channel 1. 239:0000/00/06-19:02:53&gt;No PCr's present at Channel 1. 240:0000/00/06-19:02:53&gt;No PCr's present at Channel 1. 240:0000/00/06-19:02:53&gt;No PCr's present at Channel 1. 241:0000/00/06-19:02:53&gt;No PCr's present at Channel 1. 241:0000/00/06-19:02:53&gt;No PCr's present at Channel 1. 241:0000/00/06-19:02:53&gt;No PCr's present at Channel 1. 241:0000/00/06-19:08:24&gt;No input present at Channel 1. 241:0000/00/06-19:08:53&gt;No PCr's present at Channel 1. 250:0000/00/06-19:08:53&gt;No PCr's present at Channel 1. 250:0000/00/06-19:08:53&gt;No PCr's present at</pre>	
Cancel with <esc></esc>	Clear
<u>Close</u>	Save
172.29.10.211	

### Log

Status logs with time code

Clear

Clears the displayed Log data

Close Reload Save

# Technische Daten/Specifications

Input	
Gigabit Ethernet	1000 BaseT
Protocol	MPEG over UDP/IP
	ARP, ICMP
	IGMP V2 (V3 prepared)
IP adress unicast	same port for different channels is not possible
IP adress Multicast	same IP address and same port for different channels is not possible
IP jitter removal	up to 100 ms
TS format	MPTS , CBR
TS datarate	<= QAM datarate
max. input PCR jitter	<= 10 µs
QAM processing	22 64 422 256 2444
	32-,64-,128-,256-QAM
Bonding	same constellation 4 channels
Symbol rate	4,48 – 7,00 MSymbols/s
Bonding	same symbolrate 8 channels
Roll-Off	15%
MER	> 40 dB, typ. 42 dB
Spectrum flatness	± 0,2 dB
Echo pattern	< - 34 dB
Output	
Output	75 Ohm
Danding	45 - 802 IVIAZ
Bonding	same channel offset 4 channels
Output frequency step	
Output level 8 ch. unit@RFout	1 ch. switched on 104 dBµV
	2 ch. switched on 101 dBµV
	4 ch. switched on 98 dBµV
	8 ch. switched on 95 dBμV
Output level setting	0 20 dB (0,5 dB steps)
Bonding	same output power 4 ch., 8 channels in ±6 dB
Shoulder attenuation	≥ 55 dB
Output frequency accuracy	5 ppm
Output return loss	$\geq$ 14 dB
Spurious attenuation	> 58 dB

# Technische Daten/Specifications

Exceptions:		spurious attenuation/dB									
	spurious frequency/MHz	269	538	605	740	750	807				
	OE01 3200	>55	>56	>49	>47	>56	>52				
	OE01 2400	>56	>58	>52	>49	>58	>53				
	OE01 1600	>58	>58	>55	>53	>58	>56				
	OE01 0800	>58	>58	>58	>58	>58	>58				
Output	<u> </u>			<u> </u>	l	I		1			
Phase	noise @ 10 kHz		> 94 d	Bc/Hz							
Wideb	band noise		< -28 (	dBµV/H	Z						
(32 ch	annels, 94dBuV/ch)										
Test ou	utput		- 20 dE	3							
Applicable star	ndards										
ITU-T .	J.83 Annex A		Cable	networ	ks for t	televisio	on syste	ems HE ec	luipment		
EN 30	0 429	DVB for cable systems									
General data:											
Housir	ng		19 " 1	HE							
Size			440 x 4	440 x 4	l0 mm						
Signal	ing		Power (8 channels)								
		Error (8	3 chanr	nels)							
Connectors			Gigabi	t Ether	net	4 x R	J45 100	JOBaseT			
			RF-Out	put, te	st	F-cor	nector				
			Power			IEC60	03320 i	inlet			
Power consumption			OE 01	3200		< 65	W				
			OE 01	2400		< 55	W				
			OE 01	1600		< 45	W				
			OE 01	0800		< 30	W				
Opera	ting temperatur range		0°C to 45°C								
Nominal temperatur range				5°C to 40°C							
Relativ	ve humidity		max. 80% non-condensing								
						-					

# Blockschaltbild/Block diagram

#### OE 01 3200





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