

Type		U 159	U 159-S	U 259-O
Order Number		380 159	380 269	380 278
EAN-Code		4026187193270	4026187198794	4026187199012
Base unit		separate module, up to 3 in U 100-230 or U 100-48	separate module, up to 3 in U 100-230 or U 100-48	1 RU, outdoor version for cabinets
Network interfaces (passive routing to U 1xx)				
Management		2 x 1000 Base-T Ethernet (RJ 45)		
Data		4 x SFP (1000 Base-X or SGMII)		
Input Bitrate per Data Port	[Mbit/s]	1000/1000/900/750 @ 1/2/3/4 Ports		
Protocol		Ethernet, ARP, IPv4, IPv6, UDP, RTP, TCP, HTTP(S), SNTP, SNMP v2c/v3, Syslog, IGMP v2/v3, MLD v1/v2		
Serial		1x RJ 45, 115200 kbit/s, 8N1		
Transport Stream Processing				
TS Decapsulation		UDP, UDP/RTP, 1-7 packets, FEC (SMPTE 2022-1, -2)		
Packet Length	[Bytes]	188		
Data rate adjustment		<input checked="" type="checkbox"/>		
PCR-Correction (< 500 ns acc. DVB)		<input checked="" type="checkbox"/>		
NIT Handling		static, NIT from PID, dynamic		
Scrambling				
scrambling of transmitted QAM channels according CSA		-	<input checked="" type="checkbox"/>	-
QAM-Modulator				
Modulation		16-, 32-, 64-, 128-, 256-QAM		
Signal processing		DVB EN 300 429, ITU J.83 Annex A/C		
Spectrum shape cos-roll-off	[%]	12, 13, 15, 18		
FEC		Reed-Solomon (204, 188) Code		
Symbol rate	[Msymb/s]	1 - 7,14		
Channel Bandwidth	[MHz]	1,12 - 8 (depends on symbol rate)		
Maximum number of channels		64		
Maximum bitrate per output channel	[Mbit/s]	52,64		
Phase error dynamic	[°]	0,3		
MER (Equalizer)	[dB]	≥ 44		
Shoulder attenuation	[dB]	> 56		
QAM probe with on-board decoder for output signal analysis		-	-	-
RF-Modulator				
Connectors		75 Ω, 2 x F-jack (1 x RF, 1 x Test point -20 dB)	1 x SC/APC, 1 x F-jack (Test point)	
Frequency range	[MHz]	47 - 1006 (760 MHz effective bandwidth), digital modulation		
Frequency drift	[kHz]	< 10		
Output level	[dBμV]	114/111/108 @ 16/32/64 Channels	3 dBm @ 1550 nm, OMI 3,5-4 %	
Intermodulation distance	[dB]	> 60		
Return loss	[dB]	> 14		
Spurious frequency distance	[dB]	> 60		
Intercarrier Signal-to-Noise ratio	[dB]	> 60		
Common data				
Current consumption at 48 VDC	[mA]	830	950	950
Power consumption	[W]	45	50	50
Input voltage	[V]	36 - 60 V DC	30-60 V DC (with U 100-48) or 230 V AC (with U 100-230)	
Dimensions		Plugin module for base unit, 1 RU, 19 inch		1 RU, 19 inch stand alone
Ambient temperature	[°C]	0...+45		