

VX-8900i

Mini-CMTS



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Summary

Versa Technology's VX-8900i is based on the DOCSIS 3.0/C-DOCSIS protocols and it is specially designed for HFC networks to offer fiber speeds to their cable subscribers via legacy COAX lines.

With channel bonding technology, the D3 series can utilize up to 16-QAM channels to achieve downstream (DS) data rates of up to 1.1Gbps; and utilize up to 4 QPSK/QAM channels to achieve upstream data rates of up to 160MBPS.

The unit's downstream can be configured to data channels or IP QAM channel. The unit features 1 RJ45 GE port and 1 SFP GE optical port. With layer 3 routing functions and powerful QoS, the unit can operate in a variety of working conditions and under different vendor requirements. The unit's high bandwidth capacity and powerful QoS features make it ideal for Internet Protocol Television (IPTV) or Video on Demand (VOD).

The VX-8900i measures 19 inches 1U. The head end's compact form factor makes the unit a cost-effective solution for HFC networks seeking to deploy a small-scaled network.

The D3 series is fully compatible with DOCSIS 3.0 / 2.0 cable modems.

Specifications

Downstream		Upstream	
QAM Modulation Mode	Annex A, B		
QAM Modulation	64 QAM, 256 QAM	Upstream Modulation	QFSK, 16QAM, 64QAM
Data Rate	36 Mbps @ 64QAM 50 Mbps @ 256QAM	Data Rate	30 Mbps @ 64QAM (6.4MHz)
Downstream Channel Quantity	16 channel	Upstream Channel Quantity	4 channel
Downstream Max Speed	800 Mbps	Upstream Max Rate	120 Mbps
Frequency Range	87 MHz - 1000 MHz	Input Frequency Range	5 MHz - 65 MHz
Channel Bandwidth	8 MHz / 6 MHz	Input Level Range Bandwidth	6.4 MHz, -7 dBmV -23 dBmV 3.2 MHz, -10 dBmV -20 dBmV 16 MHz, -13 dBmV -17 dBmV
Output Power	49 dBmV (8 channel) 45 dBmV (16 channel)		
Power Adjusted Range	Adjusted 25 dB, step size 0.5 dB		
Pre-equalized MER	42 dB		
RF Output			
RF OUT Connector	(1) F connector, 75 Ω	RF IN Connector	(1) F connector, 75 Ω
Port Insert Loss	< 4 dB		
Port Reflect Loss	< -12 dB		



Data Port

SPEC	Values & Settings
2 Net Port Rate	10/100/1000 Mbps
Net Port Type	Managed connector, 1 RJ45 Data connector, 1 SFP & 1 RJ45
1 GPON ONU Port	NET / SEP
1 Console Port	RS-232



Communication Interface

Command Line Interface (CLI)	RS-232 serial port, Telnet or SSH
SNMPv2	DOCSIS MIBs



Other Functions / General

Max Cable Modem Amount	400 DOCSIS 2.0 400 (max. 250 DOCSIS 3.0 + 150 DOCSIS 2.0)
Dynamic Load Balanced	Supported
DHCP Relay	Supported
Power	< 35W (without optical receiver), < 45W (with optical receiver)
Power Supply	220V / 110V AC, -48VDC (optional)
Working Conditions	Temperature: -10 ~ 50°C Humidity: 10% - 90%
Dimension (LxDxH)	19" x 16" x 1.7"