

# Balder 796xx CPE series

Technical Specifications	
<b>Hardware</b>	
Ports	4x 10/100/1000 Base-TX (RJ-45) 7x 10/100/1000 Base-TX (RJ-45) 8x 10/100/1000 Base-TX (RJ-45) 2x VoIP FXS (RJ-11)
WAN	
100 Base-BX-U and 1000 Base-BX-U (auto sense), single mode	
Optical Connector	SC/PC
Rx	1490/1550 nm
Tx	1310 nm
Optional	SFP single cage (module to be ordered separately) IEEE 802.3ah
CATV (option module)	
RF Connector	F-male (75 Ohm)
Optical wavelength	1310 ... 1550 nm
Max. optical input level	0 dBm
Operational optical input level	-10 ... 0 dBm
RF bandwidth	45 ... 862 MHz
RF output	84 dB $\mu$ V
RF flatness	$\pm$ 2dB (pre equalization for cable loss/frequency)
CNR typ:	> 49 dB
CSO	> 60 dB
CTB	> 60 dB
Optical connector	SC/APC
Ethernet	
Layer 2 wire speed packet switching	
IEEE 802.1Q VLANs (4k VLANs) incl Q-in-Q	
IEEE 802.1Q tag insertion and stripping	
Port mirroring of ingress/egress traffic	
DHCP relay/Option 82	
4k MAC address database	
Ingress and egress rate limiting	
IGMP v1/2/3 snooping	
10k jumbo frames support	
QoS	
IEEE 802.1p prioritization and reclassification	
4 QoS queues per port	
DSCP/ToS	

VoIP Protocols (option)	
SIPv2 - Session Initiation Protocol (RFC 3261, 3264)	
SDP - Session Description Protocol (RFC 2327)	
RTP - Real-Time Protocol (RFC 3500, 3551)	
RTCP - Real-Time Control Protocol (RFC 1889)	
RFC 2833 AVT Tones for SIP/RTP	
VoIP Features (option)	
G.711 a-law and $\mu$ -law 64kbps	
G.729 8kbps	
G.726 16/24/32/40kbps	
Fax: T.38	
Voice Activity Detection (VAD)	
Silence Suppression (DTX)	
Comfort Noise Generation (CNG)	
Packet Loss Concealment (PLC)	
Dynamic Jitter Buffer (Adaptive)	
Caller ID	
Call transfer	
Call forwarding	
Call waiting	
Call hold	
Message waiting	
3-way conferencing call	
Management	
Linux based OS	
SNMP v1, SNMP v2	
DHCP/TFTP	
Telnet	
SSH	
TR-069	
Status LED's	
LAN link/activity per port	
WAN link/activity	
Power Characteristics	
External power supply	
Input	100-240V AC, 50-60 Hz
Output	5 VDC, 2.0 A
Typ. power consumption	< 10W
Environmental Specifications	
Operating temperature	0°C to 40°C
Max operating humidity	80% RH (noncondensing)
Storage temperature	-20°C to 70°C
Max storage humidity	95% RH (noncondensing)
Physical Characteristics	

Dimensions (H x D x W)	44 x 104 x 144 mm
Weight	~480 g (incl. PSU)
Approvals and Certifications	
CE marking	
Safety EN 60950	
Emission	EN55022 Class B
Immunity	EN55024

Ordering information

Item no.	4 LAN Ports	8 LAN Ports	100/1000 SFP socket	VoIP FXS	With CATV	
79601	x		x			79631
79602	x			x		79632
79603	x		x		x	79633
79604	x			x	x	79634
79611		x	x			79641
79612		x		x		79642
79613		x	x		x	79643
79614		x		x	x	79644