DW-PC8E1-E
8E1 to Ethernet Protocol Converter

Features

♦ Be fully compatible with the following specifications: a) IEEE 802.3, b) ITU-T G.703, c)

♦ ITU-T G.704, (G.7041, G.7042, G.7043) d) ITU-T G.823, e) ITU-T G.8040.

♦ Supports Dynamic Ethernet MAC address (4096) with local address filter function.

♦ Support and transparently pass all the protocols that exist in 10 Base-T, 100 Base

♦ –TX Ethernet networking system.

♦ Map 100Base-TX or 10Base-T Ethernet data into 8E1 channels, and vice versa.

♦ Learn automatically the MAC address in the connected LAN and only transmit the destination address of the frame in another LAN.

♦ Extend the bandwidth to 16.384M using 8-E1 channels and 8.192 M while using only 4-E1 in the same 8E1 to Ethernet Converter over Telecom opearator's SDH/PDH network before aggregation to a switch.

♦ The converter shall provide the facilities to auto-inspect and auto-restore affected E1 channels without interrupting the data traf-fic.

♦ Auto-detect the valid E1 channels and auto-balance the data flow among the valid E1 channels.

♦ provide remote and local E1 Loop test when it has LOS and LOS alarm, and inform the remote end simultaneously.

- ♦ provide remote and local E1 Loop test function through indicators.
- ♦ provide comprehensive LED alarm/working status indicators for E1 and Ethernet interfaces.
- ♦ provide NMS function, the NMS is based on TCP/IP network and shall support SNMP V1, V2 / V3 protocol which it monitored through NMS GUI and WEB based both.
- ♦ Input Power supply: DC -48V and should be operational from -45 to -57 DC Volts and also should support AC 180V~240V.The converter shall consist at least one earthing (grounding) port.
- ♦ support Channelized and Non-Channelized E1's .
- ♦ support to configure by Console port(RS-232)
- ♦ The NMS port in the equipment is 10/100Base-T Management port and support TCP/IP.
- ♦ Power supply: AC220V/DC-48V/DC+24V are optional
- ♦ AC220V： insert AC220V power line directly
- ♦ DC-48V： insert AC220V power line directly, the positive and negative charges can connect mix, -45V ins grounded, GND is connected to 48V.

Product description:

DONGWE DW-PC8E1-E adopts inverse multiplexing technology that transmitting 1-4 10/100BaseT over 1~8 E1 links.

Employing Ethernet-over-PDH technique, it allows the transport of native Ethernet frames over the well-established PDH telecommunications infrastructure. This enables carriers to make use of the extensive legacy PDH and TDM equipment to provide new Ethernet-centric services. It can be used for interconnecting Wimax Base Stations and IP exchanges (MSAN & MSAG) de-ployed at remote locations to the aggregation Switches through E1 interface.

It supports flexible configuration if 1~8E1 links, auto-detecting the number of E1 and selecting the available channels.

Specification:

E1 interface	
Standard	in accordance with ITU-T G.703, G.704
Rate	2.048Mbit/s±50ppm
Coding	HDB3
Impedance	75Ω(unbalanced)
Connector	BNC (75Ω)
Jitter Performance	According to G.742 and G.823
10/100Base-T interface	
Rate	10M/100M, full/half duplex auto-adapt.
Protocol	Support IEEE 802.3, IEEE 802.1Q (VLAN)
MAC address table	4096 MAC addresses
Ethernet buffer	64Mbits SDRAM
Physical interface	RJ45, support AUTO-MDIX (cross over and straight through auto-adapt)
General Information	
Dimension	1U/19inch rack : 483(W)*140(D)*44(H)
Operating environment	Voltage： AC180V ~ 240V；DC －48V； Power Consumption： ≤5W Working temperature： -10°C~50°C Storage temperature： -40°C~70°C Humidity： 95 %

Ordering Information:

Part Number	Product Description
DW-PC8E1-E	Protocol Converter, 8E1 to 10/100M Ethernet Converter, RJ45 or BNC for E1, Dual power supplies, for 19" Chassis