



VWM1010

System Overview

VWM-Max series

WiMAX Data Adapter



Features

- **Combined data and power adapter**
- **Compact size**
- **Easy installations**

GENERAL DESCRIPTION

The Venceip VWM1010 Data Adapter is a member of the VWM-Max family, a line of WiMAX-based Broadband Wireless Access systems and Triple-Play Multi-Service Gateways. VWM-Max systems are designed for robustness and simplicity, offering feature-rich services with low deployment and operation costs, for unmatched operator competitiveness and fast ROI.

The VWM1010 is a combined data and power adapter that interfaces to the customer's Outdoor Unit wireless modem. The VWM1010 unit provides RJ-45 input connectors that include 10/100Base-T transformers for connection to an IEEE802.3 (10/100Base-T) compatible device. The unit receives power from 100V to 240V AC using an industry standard connector. A single output RJ-45 connector provides 10/100 Base-T data and 55V to the outdoor unit.

VWM1010 is designed to complement VWM-Max Broadband Wireless Access systems, allowing support of multiple customer types over the same infrastructure. The VWM1010 unit connects to Venceip IEEE802.16d and IEEE802.16e WiMAX-based outdoor units over a CAT5 cable. This cable serves the bi-directional transfer of data and signaling as well as a power feed to the outdoor equipment.

WiN1010 Highlights:

- **Plug-and-play** installation and operation
- **Wall mount** option for versatile installation options
- **High efficiency** - free convection cooling
- **Full output protection** - OCP SC, OVP
- **Surge Protection** - on DC and data
- **High MTBF** - over 200,000 hours
- **Connects to 16d or 16e ODU CPE** through a single cable

VWM1010 System Specifications

Interfaces:

Indoor to Outdoor	10/100BaseTX auto sending (IEEE 802.3u) Connector RJ-45 Transmission Full/half duplex, auto negotiation, auto detect, auto polarity, cross or straight cable DC supply to outdoor unit
AC Input	3 pin AC Inlet IEC320C14
DC Output	50-58VDC, 0-1A
LAN	10/100BaseTX auto sending (IEEE 802.3u) Connector RJ-45 Transmission Full/half duplex, auto negotiation, auto detect, auto polarity, cross or straight cable 100BaseTX UTP, Cat. 5 100m
Ethernet Standards	IEEE 802.3 IEEE 802.3u IEEE 802.1q VLAN tagging support IEEE 802.1p QoS support

Standards:

Safety	CUL/UL UL1950 CE EN60950
EMC	ETSI EN301489-1
Emissions	FCC part 15 class B EN55022 Class B EN61000-3-2, EN61000-3-3 EN61000-4-2, EN61000-4-3, EN61000-4-4
Immunity	EN61000-4-11
Voltage tips	EN61000-4-5 Class 3
Surge	

General:

Indicators	LAN Activity/Link Green flashing Radio Link Power Green
Dimensions (LxWXH)	160mm, 60mm, 32mm
Power	110-230 VAC external power supply
Weight	0.2 kg (0.88 lb)
Operating Temperature	0° ~ 45° C (32° - 113° F)
Operating Humidity	10% - 90% non-condensing
MTBF	200,000 Power On Hours at 55W load 45°C (MIL-HDBK-217F)

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