ALLNET ISP Bridge Modem VDSL2 with Vectoring Industrial IP30 VDSL2V ‘ALL-BMI100VDSL2V’

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Highlight:

- Industrial VDSL2V bridge modem made of metal with integrated 4-port 10/100/1000 Mbps switch.
- Hat rail mountable Supports DPBO (Downstream Power Back Off).
- Can be configured as a VDSL2 modem for Telekom VDSL2 connection and then requires a suitable downstream router.
- Supports VDSL vectoring.
- Wall mounting possible
- Redundant power supply is also possible.
- Can also be used as a point-to-point client in conjunction with ALL126AM3 master
- **Temperature range -20 degrees to +70 degrees.**
- **The power supply is possible from 12V to 48V DC via terminal contacts.**

ALL-BMI100VDSL2V is an industrial VDSL2 bridge modem equipped with four Gigabit LAN ports. It is compliant with the ITU-T G.993.2 and G.993.5 standards and supports the VDSL2 profile 30a & , which offers 100 Mbps of symmetrical data. ALL-BMI100VDSL2V is perfectly suited for triple play applications. Of course, it also supports the other profiles such as 17a / 8 etc. This can be configured via the integrated web interface. The modem is housed in a modern metal housing for DIN rail mounting and is suitable for harsh environments, such as industrial networks and applications in harsh environments (IP30).

Support of the vectoring technology Friendly Mode

Vectoring is a transmission method that uses the coordination of line signals to reduce crosstalk and improve performance. It is based on the concept of noise suppression, similar to headphones with noise suppression. The ITU-T G.993.5 standard, "Self-FEXT cancellation (Vectoring) for use with VDSL2 transceivers" (2010), also known as G.vector, describes vectoring for VDSL2. The scope of the ITU-T G.993.5 recommendation is specifically

limited to self-FEXT suppression (far-end crosstalk) in the downstream and upstream directions. Far-end crosstalk (FEXT) generated by a group of short-range transceivers and interfering with the long-range transceivers of the same group is cancelled. This cancellation takes place between VDSL2 transceivers that do not necessarily have to have the same profile.

Easy installation

The ALL-BMI100VDSL2V can be installed on any flat surface (e.g. table, shelf or rail) with a bracket or on the DIN rail. The ALL-BMI100VDSL2V supports plug-and-play installation and is fully compatible with all types of network protocols. In addition, the user can monitor the status of each individual port via the LED indicators.

Advanced management

For efficient management, the ALL-BMI100VDSL2V can be programmed via the web interface for advanced management functions such as VLAN configuration through to changing synchronisation profiles, etc.

About applications in harsh environments

The ALL-BMI100VDSL2V can be used in harsh environments, such as -20°C ~ 70°C (-4°F ~ 158°F), and has a metal housing that complies with the IP-30 design.

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Technical details:

Element	Specification
Chip set:	Lantiq Vinax VRX268 (VDSL2) + VRX208
Physical interface:	• 4 x RJ-45 10/100/1000Mbps auto-negotiation Ethernet port • 1 x RJ-11/Terminal Block connector for VDSL2 line port • 1 x removable 6-contact terminal blocks for power1 and alarm contact • 1 x removable 2-contact terminal blocks for power2 • 1 x reset button (factory reset) • MTU: 1680 bytes (Jumbo frame)
VDSL2 interface:	• Complies with ITU-T G993.2, G993.5 • Connector: RJ-11/Terminal block • PTM/ATM Transmission • On-board surge protection
LED Indicators:	• 1 x Power LED • 4 x Link/Active Status for Ethernet port

	• 1 x Link LED for VDSL2 port
Features:	• Supports ITU-T G.993.5 vectoring • Supports ATM and PTM transmission mode auto detection(ADSL Annex A/B backward compatible) • Supports high bandwidth up to 100Mbps symmetric over line ports • Supports 8a, 8b, 8c, 8d, 12a, 12b, 17a, 17b, and 30a band profile and 997, 998 band plan • Supports ATM-TC,ATM and AAL5 (ATM Flow Throughput / OAM Cell Filter and Forwarding / AAL5 SAR:PVC / ATM Traffic Class / ATM PVC Shaping / ATM PVC Scheduling) • Supports ATM Total Upstream Priority Queues • Supports uPnP/PPPoE/PPPoATM/IPv4/IPv6/NAT/NAPT • Supports static routing for IPv4 and IPv6 forwarding • Supports firewall functions contains Packet filtering, DMZ, Mac Address ased filtering, Parental Control, Application based filtering • Supports DHCP Server/DHCP Relay/DHCP Client/DHCPv6 Client/DHCPv6 Server/DNS/DNS Proxy or Relay/DNSv6 Proxy or Relay/NTP Client/HTTP1.1 server • Supports Multicast IP table/IGMP v3 Proxy and Snooping • Supports IEEE 802.1p VLAN Priority and mapping to DSCP • Supports 802.1q VLAN tagging • Supports HTTP/HTTPS(SSL) web management • Supports remote management and monitor • Supports configuration backup and restore • Provides surge protection for Line port • Supports power redundant and wide range dual power input(DC12V ~ 48V) • Supports overload current protection • Supports wide range operating temperature(-20 C ~ 70 C) • Supports reverse polarity protection • Supports alarm contact (relay output - 1 A @ 24 Vdc/@ 120Vac) • Supports DIN-Rail mount installation • Metal case design and compliant with IP30 standard • Supports Router & Switch(Bridged) mode selection • Supports jumbo frame up to 1680 bytes • Supports 8 queue MFC/DSCP both type QoS

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	• Supports dual firmware image backup • Supports Dying Gasp
Switch method:	Store and forward
Flow control:	Full duplex: IEEE 802.3x Half duplex: Back pressure
Power supply:	DC 12V Redundant dual DC input power 12~48V (Removable Terminal Block) Power supply unit is required see accessories
Maximum Power Consumption:	9.6W
Dimensions:	182mm x 142mm x 35.5mm (7.16" x 5.59 " x 1.39 ")
Operationg Temperature:	-20°C ~ 70°C (-4°F ~ 158°F) Fanless, free air cooling
Storage Temperature:	-40°C ~70°C (-40°F ~ 158°F)
Humidity:	5 to 95% (non-condensin
Net weight:	approx. 0.79 kg
Marks:	CE, FCC, RoHS Compliant
Package contents:	• 1x ALL-BMI100VDSL2V • 1x terminal block connectors • 1x DIN rail with screws • 1x QIG

Accessories

Part No.	Name
105571	ALLNET spare power supply 12V/2,0A
158563	Mean Well power supply - 12V 24W DIN rail
139521	Mean Well power supply - 12V 75W DIN rail
139519	Mean Well power supply - 24V 75W DIN rail
140523	Mean Well power supply - 48V 75W DIN rail, narrow
6016	Kabel TK TAE-Adapter,flach,TAE-F -> RJ11/RJ12, Bulkware
99305	ALLNET / ALL95100 TP Cat 6 / PoE Surge arrester
149851	ALLNET ALL126AM3 / VDSL2 Master CO over 2 Wire

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