

The Industrial Broadband Router

Falcon, FDV-206-1D1S

- ⌘ Industrial remote access using the Internet
 - Economic and environmental benefits
 - Access SCADA systems, HMI and PLCs remotely
 - Broadband connection using ADSL / ADSL2 / ADSL2+ or VDSL2
- ⌘ Designed for industrial applications
 - Compact casing with an integrated DIN-rail mounting for easy integration
 - Industrial EMC levels and very high MTBF figures ensures high availability
 - Dual power inputs ranging from 19 to 60 VDC
- ⌘ Secured Internet access powered by WeOS
 - Designed to cope with the threats of the Internet environment
 - Easy to use firewall prevents unauthorized access
 - Encrypted and secure data transmission with VPN-tunnels
- ⌘ A wide-variety of solutions to common communication issues
 - Simple replacement of analogue leased lines
 - Ability to connect up to four Ethernet-devices directly to the router
 - One model for both PSTN and ISDN and a basic-setup page for easy installation



Remote access removes boundaries, eliminates the need for time consuming site visits and provides a network infrastructure suitable for today's "always-on" society. The Falcon industrial broadband router is the world's first VDSL2 router designed for use in industrial environments. Due to the fact that many installations are in remote locations the Falcon also supports ADSL, ADSL2, and ADSL2+ to allow access to your applications remotely regardless of their physical location.

The Falcon, incredibly compact and built into a purpose designed case with an integrated DIN rail clip, has an operational temperature between -20 to +70°C (-4 to 158°F) and is designed to operate in industrial EMC levels. High MTBF figures lead to an expected service life of more than 10 years. The often critical nature of the installations calls for reliability so the Falcon can be powered from separate DC voltages sources with inputs ranging from 19 – 60 VDC

The Westermo Operating System (WeOS) is a feature rich operating system designed for the industrial markets. It provides the Falcon with cyber security functionality, such as DMZ, IPsec VPNs and a stateful inspection firewall configured to be secure by default. Management is done via an easy-to-use web interface, through an advanced CLI, or via SNMP.

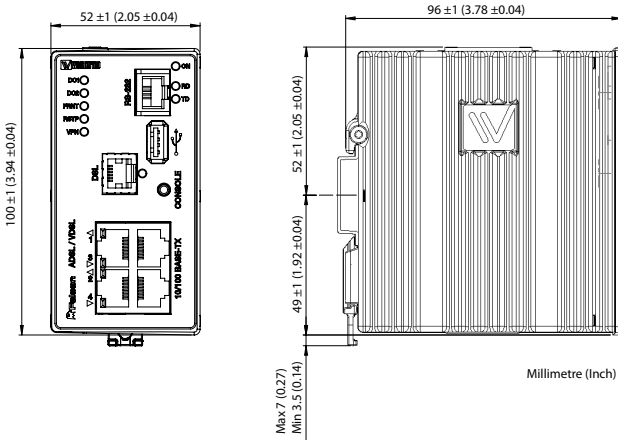
Most industrial devices today have Ethernet communications ports so the Falcon comes equipped with a built in four (4) port layer 3 routing switch. The Falcon can cope with older legacy devices running RS-232 with its built in device server interface, making it perfect for analogue modem replacement projects. One model for ADSL over PSTN or ISDN removes the risk of having to know beforehand what unit to put into what application. Setting up a broadband connection has never been easier using the basic setup page.

Ordering Information

Art.no	Description
3660-0100	FDV-206-1D-1S Industrial broadband router for ADSL/VDSL2, WeOS-based.
3125-0001	PS-30, Power supply, DIN mounted (Accessories)

Specifications Falcon, FDV-206-1D1S

Dimensional drawing



Dimension W x H x D	53 x 103 x 103 mm (2.08 x 4.05 x 4.05 in)
Weight	0.4 kg
Degree of protection	IP 40

Power

Rated voltage	24 to 48 VDC
Operating voltage	19 to 60 VDC
Rated current	460 mA @ 24 VDC 220 mA @ 48 VDC

Interfaces

RS-232	1 x 50 bit/s – 115.2 kbit/s	
Ethernet TX	4 x 10 Mbit/s or 100 Mbit/s	
DSL	1 x RJ-11, EFM (VDSL2), llc /vc -mux encap Ethernet (ADSL), PPPoE (ADSL / VDSL2)	
	Standard	Annex
	ETSI TS 101 270	N/A
	ITU-T 993.2 (VDSL2)	A, B
	T1.424	N/A
	ITU-T G.992.1 (ADSL)	A, B (non overlap)
	ITU-T G.992.2 (ADSL lite)	A (non overlap)
	ITU-T G.992.3 (ADSL2)	A, B, I, L, M (non overlap)
	ITU-T G.992.5 (ADSL2+)	A, B, I, M (non overlap)
	ANSI T1.413	N/A

Temperature

Operating	-20 to +70°C (-4 to +158°F)
Storage & Transport	-40 to +85°C (-4 to +185°F)

Agency approvals and standards compliance

EMC	EN 55024, EN 55024 A1, EN 55024 A2, Electromagnetic compatibility – Immunity IT equipment
	EN 55022, EN 55022 A1, Information technology equipment. Radio disturbance characteristics. Limits and methods of measurement
	EN 61000-6-2, Immunity industrial environments
	EN 61000-6-4, Emission industrial environments
	EN 61000-6-3, Emission residential, commercial and light-industrial environments
	FCC part 15 Class A and Class B
	EN 50121-4, Railway signalling and telecommunications apparatus
Safety	EN 60950-1, IT equipment