

Your Infomobility Partner

FMS2IP is an automotive Linux Embedded platform, designed to make cost-effective FMS to Ethernet LAN gateway. The FMS2IP can be configured to stream toward a LAN the messages read on the input FMS2 CAN bus. The module reads the messages from the input FMS CAN and broadcasts as UDP the messages on the output Ethernet LAN with a proprietary documented protocol, maintaining the same format, structure and frequency of the original FMS messages. The FMS2IP can be configured for filtering the CAN messages to be transferred to the LAN. It is also possible to perform a customization of the internal firm-ware for special management of the messages or custom applications.



Application in EBSF¹ compliant IP network architectures

FMS2IP can be used in a EBSF compliant vehicle LAN back-bone; in order to facilitate the development of EBSF compliant gateway applications, the complete EBSF protocol infrastructure is included in the factory built Linux image.

PROCESSOR	ARM9 @ 75 Mhz
OPERATING SYSTEM	Linux Embedded
MEMORY	8 MB Flash 16 MB SDRAM
INTERFACE	1x CAN (FMS, FMS2) - DB25 connector (including +24V) 1x LAN - M12 Ethernet connector, 4 ways Female D-coded 1x Digital INPUT
LAN	10/100Base-T 10/100 Mbps (auto sensing) Full or Half-duplex (auto sensing)
LINUX Network Services	TCP/UDP, ICMP, ARP, RARP, BOOTP, DNS, DHCP, TFTP, Telnet, bridge-utils 1.4, cherokee 0.99.9, iproute2 2.6.38, net-snmp 5.4.2, openntpd 3.9p1, ppp 2.4.4
POWER	9-36 VDC, overvoltage & polarity inversion protection Consumption 1,5W
TEMPERATURE	Operating -30° to +70° C, +80° for 30 min. Storage -40° to +90° C
ENVIRONMENTAL	Standard IP 54 (IP67 on request)
HUMIDITY	5-90% relative humidity non condensing
COMPLIANCE	Environmental: E-mark ECE R10-04 EN 50155 (Humidity, Ambient air temperature, Storage temperature) ² EN 50155 (Power supply voltage interruption, Surges, Isolation resist.) ² EN 60068-2-64 (Vibration, broad-band random and guidance) ² LAN Interface: FCC Part 15 Class B, EN 55022 Class B, EN 61000-3-2 and EN 61000-3-3 ICES-003 Class B, VCCI Class II, AS 3548, FCC Part 15 Sub C Section 15.247 IC RSS-210 Issue 5 Section 6.2.2(o), EN 300 328, EN 301 489-17, UL 60950-1 EN 60950 (EU), CSA C22.2, No. 60950, EN 55024



Ordering Information	
PFML010001	FMS To LAN Gateway
SFML010001	LINUX OS + EBSF Sw

1) European Bus System of the Future (www.ebsf.eu) is a European Project coordinated by UITP (www.uitp.org)
2) Available on request

Designs and specifications are subject to change without notice

