FAVA2 Analog Series - Product Specifications
Two Channels Video, Point to Point Transmission

PRODUCT DESCRIPTION

The KBC FAVA2 Analog series utilizes AM modulation and Automatic Gain Control to provide transmission of two channels independent video signal in one module on 2 independent multimode optical fibers. PAL, NTSC and SECAM standards are fully supported. This series is widely used in security surveillance, highway monitoring, automation, intelligent residential houses, customs, electrical companies, gas and petroleum industry, chemical facilities, and many other areas. The plug-and-play design ensures ease of installation; no electrical or optical adjustment is needed.   LED indicators are provided for showing operating status of the unit and the interfaces. This series is available as stand-alone wall mount unit or a 3U chassis card.

Wall mount shown

PRODUCT FEATURES

- Point to Point transmission.
- AM modulation.
- Automatic Gain Control inside, wide optical dynamic range, no adjustment is required.
- Directly compatible with NTSC, PAL and SECAM CCTV camera systems.
- All SMT design.
- LED indicators provide quick diagnosis of all systems operations.
- Wall mount, or 3U chassis card configurations.

APPLICATION EXAMPLES

- Security and Surveillance Systems
- Intelligent Transportation Systems
- Building Automation Systems
- Industrial Monitoring Systems

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KBC NETWORKS

SPECIFICATIONS

VIDEO

Video Channels	2
Video Input/Output	1.0V p-p typical, 1.5Vp-p max. 75 ohms
Video bandwidth	5Hz~10MHz
Differential Gain (10-90% APL)	< 5%
Differential Phase (10-90% APL)	< 5⁰
Signal to Noise Ratio	60dB typical

OPTICAL

Number of fibers	2
Wavelength	1310nm
Fiber	62.5/125µm (MM), 9/125µm (SM)

GENERAL

Operating Temperatures	-40⁰ ~ +70⁰C / -40⁰ ~ +158⁰F
Operating Humidity	0 to 95% non-condensing
Power Supply [1]	Input: 100~240VAC; Output: +5VDC
Mean Time Between Failure (MTBF)	> 100,000 Hours
Dimensions (Wall Mount, L x W x H)	135mm x 115.5mm x 36mm / 5.32" x 4.55" x 1.42"
Number of 3U Chassis Card Slot [2]	1

CONNECTORS

Video	BNC
Fiber	ST
Power	Terminal (Wall Mount)

OPTICAL BUDGET

Fiber	Optical Budget	Ref. Distance [3]
Multi Mode	15dB	0~4km / 0~2.5miles

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MODEL LEGEND

FAVA2-M2T-BSA

M: Multimode

T: Transmitter
R: Receiver

A: US
B: UK
C: Euro
Blank: Chassis Card

S: ST Connector

W: Wall Mount
B: 3U Chassis Card
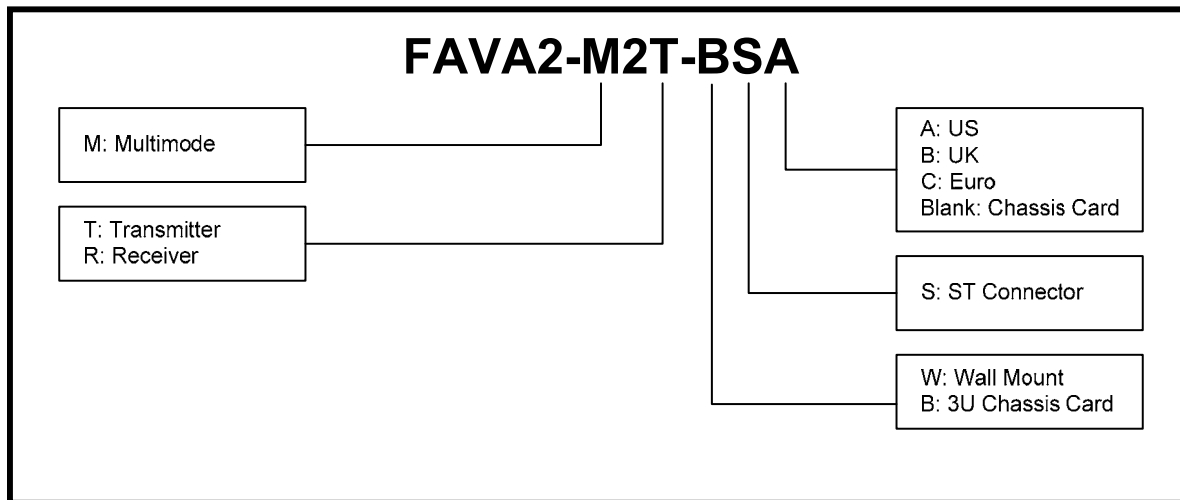
[1] Please select the power plug from US Standard, Euro 2 Circular or UK 13A when placing order.
[2] Support maximum up to 14 cards for each 3U Chassis .
[3] Transmission distance is limited by optical loss of the fiber and loss introduced by connectors, splices and patch panels. Fiber bandwidth also limits the transmission distance.

Due to ongoing technological improvements, product specifications are subject to change without notice.

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KBC Networks Analog (AM) and Standard Digital Products

Model Number	Model Description	Video Channels	Data Channels	Mod	Mode	End	Fibers	Form Factor
AM VIDEO TRANSMISSION, MULTI-MODE								
FAVA1-M1T-MSa	1-ch point-to-point one-way AM compact video transmitter, 1 fiber, 1310nm multi-mode, 15dB optical loss budget.	1	0	AM	MM	Tx	1	Compact
FAVA1-M1T-WSa	1-ch point-to-point one-way AM video transmitter, 1 fiber, 1310nm multi-mode, 15dB optical loss budget. Wall mount configuration.	1	0	AM	MM	Tx	1	Wall Mount
FAVA1-M1R-WSa	1-ch point-to-point one-way AM video receiver, 1 fiber, 1310nm multi-mode, 15dB optical loss budget. Wall mount configuration.	1	0	AM	MM	Rx	1	Wall Mount
FAVA2-M2T-WSa	2-ch point-to-point one-way AM video transmitter, 2 fibers, 1310nm multi-mode, 15dB optical loss budget. Wall mount configuration.	2	0	AM	MM	Tx	2	Wall Mount
FAVA2-M2R-WSa	2-ch point-to-point one-way AM video receiver, 2 fibers, 1310nm multi-mode, 15dB optical loss budget. Wall mount configuration.	2	0	AM	MM	Rx	2	Wall Mount
FAVA1-M1T-BS	1-ch point-to-point one-way AM video transmitter, 1 fiber, 1310nm multi-mode, 15dB optical loss budget. 3RU chassis mount.	1	0	AM	MM	Tx	1	3RU Chassis
FAVA1-M1R-BS	1-ch point-to-point one-way AM video receiver, 1 fiber, 1310nm multi-mode, 15dB optical loss budget. 3RU chassis mount.	1	0	AM	MM	Rx	1	3RU Chassis
FAVA2-M2T-BS	2-ch point-to-point one-way AM video transmitter, 2 fibers, 1310nm multi-mode, 15dB optical loss budget. 3RU chassis mount.	2	0	AM	MM	Tx	2	3RU Chassis
FAVA2-M2R-BS	2-ch point-to-point one-way AM video receiver, 2 fibers, 1310nm multi-mode, 15dB optical loss budget. 3RU chassis mount.	2	0	AM	MM	Rx	2	3RU Chassis
FAVA3-M3T-BS	3-ch point-to-point one-way AM video transmitter, 3 fibers, 1310nm multi-mode, 15dB optical loss budget. 3RU chassis mount.	3	0	AM	MM	Tx	3	3RU Chassis
FAVA3-M3R-BS	3-ch point-to-point one-way AM video receiver, 3 fibers, 1310nm multi-mode, 15dB optical loss budget. 3RU chassis mount.	3	0	AM	MM	Rx	3	3RU Chassis
CHASSIS CARD CAGE								
FR3-aA	Chassis card cage for up to 14 single width modules. 3RU. 100~240VAC, 50/60Hz input.	0	0					3RU Chassis

Notes: Please specify the power plug while placing orders.

      a - Power plug; A: US; B: UK; C: Euro