

Product Overview

AMIS-49200: Fieldbus Physical Layer Medium Access Unit (MAU)

For complete documentation, see the data sheet.

AMIS-49200 and AMIS-49250 Fieldbus MAU (media access units) are transceiver chips for low speed FOUNDATION Fieldbus® and Profibus® PA devices. AMIS-49200 was designed to be a near pin-for-pin replacement of the Yokogawa μ SAA22Q MAU. 'Near pin-for-pin' means that associated component values may change, but no board changes are required. AMIS-49250 is a small, micro-lead frame version, in a 7.0 x 7.0 mm NQFP-44 package.

Features

- All node power can be supplied by the bus, via the AMIS-492x0
- Current consumption 500 μ A (typ)
- VCC voltage: 6.2 V to 4.75 V
- VDD voltage: 5.5 V to 2.7 V
- Compatible with IEC 1158-2 and ISA 50.02
- Shunt regulator
- Voltage reference (internal only)
- Series regulator
- Bandpass filter
- Slew rate control

For more features, see the data sheet

Applications

- Process automation
- Pressure and temperature monitoring

End Products

- Paper manufacturing
- Control or flow metering devices for oil refineries
- Natural gas production

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Data Transmission Standard	Data Rate	Number of Drivers	Number of Receivers	V _{CC} Min (V)	V _{CC} Max (V)	t _{PLH} Max (μ s)	I _O Max (μ A)	I _{IH} Max (mA)	Package Type
AMIS-49200-XTD		Pb-free Halide free non AEC-Q and PPAP	Active	MAU	31.25 kbps	1	1	4.75	6.2	4.7	30000	0.001	LQFP-44
AMIS-49200-XTP		Pb-free Halide free non AEC-Q and PPAP	Active	MAU	31.25 kbps	1	1	4.75	6.2	4.7	30000	0.001	LQFP-44
AMIS-49250-XTP		Pb-free Halide free non AEC-Q and PPAP	Active	MAU	31.25 kbps	1	1	4.75	6.2	4.7	30000	0.001	NQFP-44

For more information please contact your local sales support at www.onsemi.com.

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