



Embedded Solutions

Universal Modules

General Description

Following figure shows the general block diagram of Universal module:

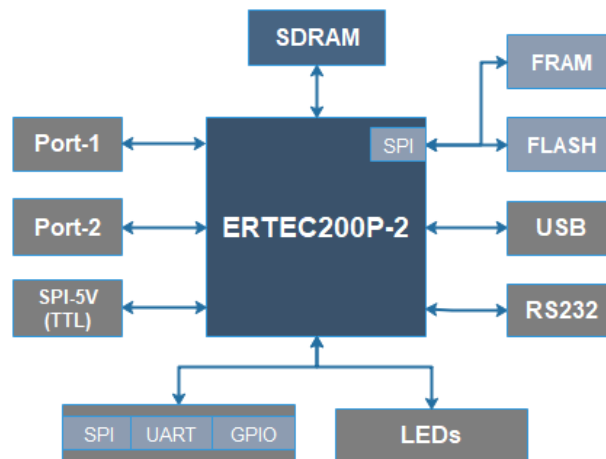
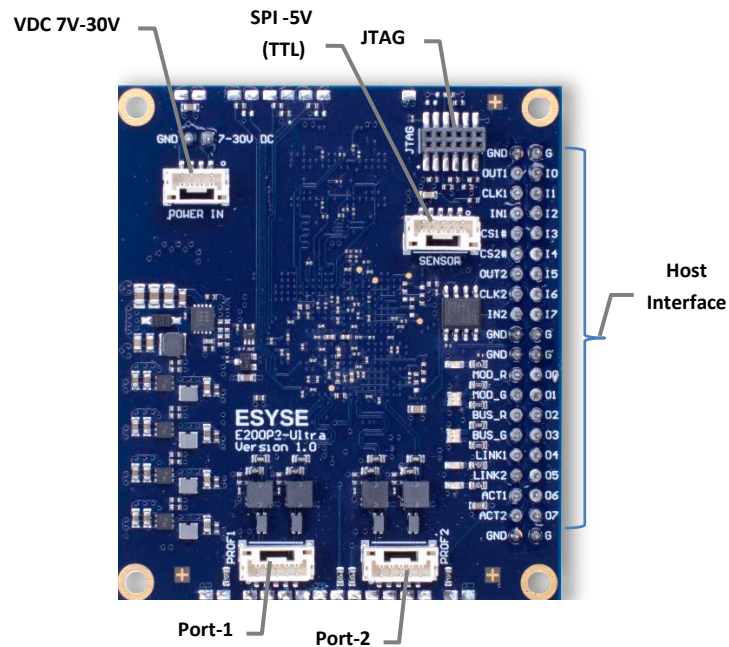


Figure 1: General Block diagram ESYSE-E200P2-XXXX



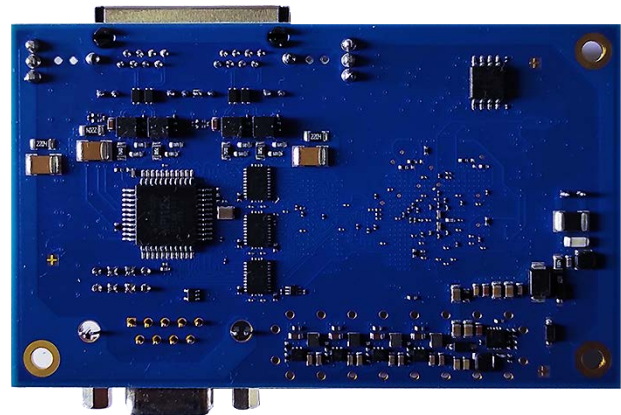
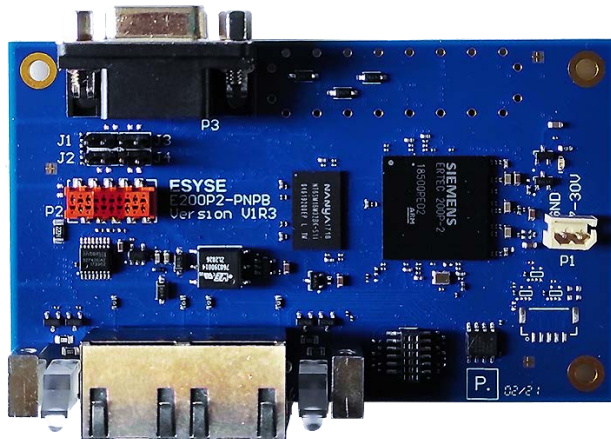


Following table shows the general description of ESYSE-E200P2-XXXX communication modules:

General Description	
Temperature area:	-45° - 85°
Power-Supply:	7V- 30V DC Input,
Power consumption:	Wattage: min. 0.5VA, max. 3VA, Nominal: 1VA (with 1 millisecond network connection IO-cycle time)
SDRAM:	64 MB
ROM	8/16/32 MB
FRAM:	8/16 KB
Ethernet Connection:	- RJ45 Connector - M12, JST, Borad-to-Board / Wire-to-Board
Host Interface:	- SPI / UART (3.3 V) or - SPI-TTL (5 V)
Status LEDs:	Module and Net Bicolor, Link-LEDs (Port-1 and Port-2)
GPIO:	Additional configurable Digital Input/Output
Programming Interface:	JTAG-Interface for ARM Debugger
RS232	Serial D-SUB 9-Pin
USB:	Micro-USB Connector
Fieldbus Protocols:	PROFINET: - PROFINET Version 2.33, - Performance Class CCA,CCB and CCC (MRP, RT and IRT) - Media Redundancy: MRP, MRPD, - System Redundancy, - min. IO-Cycle Time: 125 microsecond, - Shared Device, - Fast-Startup, - Motion Control (Optional): - o PROFIdrive Version V4.2 Axis-Control: Speed and Positioning - o PROFIdrive Version V4.2 Encoder Device Profile.
	EtherNet/IP: - Dual Port integrated switch, - ACD (Address Collision Detection), - DLR (Device Level Ring), - Max. simoultaneously Implecit Messaging (IO-Connections): 5, - Max. Explicit Messageing: 15, - Min. IO-connection cycle time: 1ms, - CIP-Safety: as Black-Box communication module,
	- PROFIBUS: DPV0, DPV1 and DPV2 - EtherCAT, - MODBUS,
Additional standard protocols:	Webserver, OPC-UA, MQTT, IP-Telemetry
Applications: (Available by ESYSE)	- Drive: Servo Drive Motion Control Systems (Positioning and speed control) - Encoder: SSI, BiSS-B, BiSS-C, Endat,... - Pump, - Valve, - IO-Device, - Gateway, - General Communication module - User specific (Programmable via JTAG-Interface)



Gateway solution



Description	General Description	Refer to table above
	Order-ID:	ESYSE-E200P2-Gateway
	Dimension:	100mm x 60mm
	Ethernet Connection:	Dual Port RJ45
	PROFIBUS Connector	D-SUB 9-Pin
	Ethernet Interface:	IP, PROFINET, EtherNet/IP, EtherCAT, MODBUS,...
	PROFIBUS:	DPV0, DPV1 and DPV2
	Application:	Gateway, Drive, Encoder, Pump, Valve, IO-Device,...

