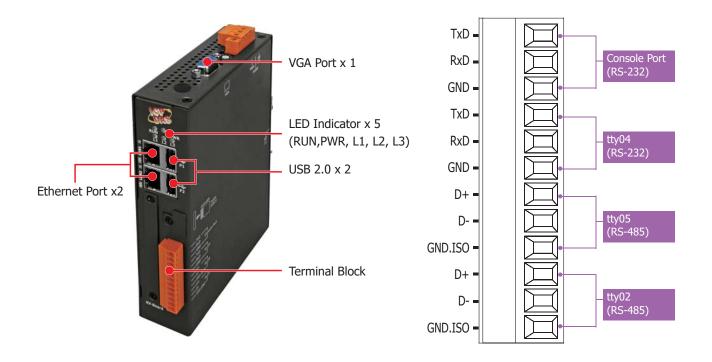


#### Introduction

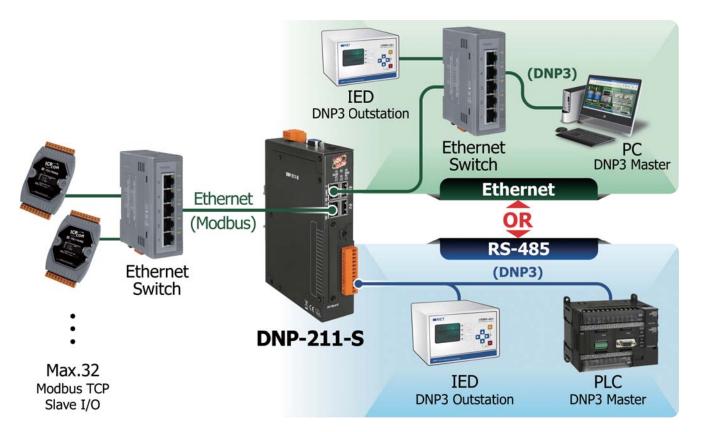
Distributed Network Protocol 3 (DNP3) is a set of communications protocols used between components in process automation systems. Its main use is in utilities such as electric and water companies. It was developed for communications between various types of data acquisition and control equipment. It plays a crucial role in SCADA systems. It is primarily used for communications between a master station and Remote Terminal Units (RTUs) or Intelligent Electronic Devices (IEDs).

The DNP-211-S is a gateway device that supports the conversion between DNP3 Outstation and Modbus TCP Master protocols. It integrates multiple Modbus TCP I/O devices into a single DNP3 I/O device, allowing the DNP3 master station in the system to control the underlying Modbus TCP I/O devices through the DNP-211-S. On the Modbus side, the DNP-211-S supports common function codes such as 1, 2, 3, 4, 5, 6, 15, and 16. On the DNP3 side, it provides corresponding data groups such as 1, 10, 11, 30, 40, and 41. All Modbus TCP I/O data and DNP3 address mappings can be configured through the DNP-211-S utility software.

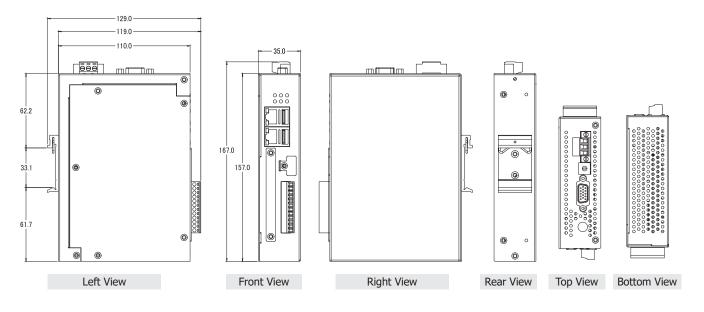
### 🖿 Pin Assignments



## Applications



## Dimensions (Units: mm)





# Specifications

System		
CPU		Cortex-A8, 1 GHz
SDRAM		512 MB
Flash		512 MB
FRAM		64 KB
LED Indicators		PWR (Power) · RUN (System Run) · L1 (Firmware Run) L2 (Modbus TCP connection) · L3 (DNP3 connection)
Communica	ation Ports	
VGA		1 (reserved)
Ethernet		RJ-45 x 2, 10/100/1000 Based-TX (auto-negotiating, Auto MDI/MDI-X, LED indicators)
USB 2.0		2 (reserved)
Console Port		RS-232 (RxD, TxD and GND); Non-isolated
ttyO2		RS-485 (Data+, Data-); Non-isolated
ttyO4		RS-232 (RxD, TxD and GND); Non-isolated
ttyO5		RS-485 (Data+, Data-); 2500 VDC isolated
Protocol		
Modbus	Identity	Modbus TCP client
	Function	1, 2, 3, 4, 5, 6, 15, 16
	Connection	Max. 32 Modbus TCP servers
DNP3	Identity	DNP3 slave
	Connection	Support RS-485 / Ethernet
	Group	1, 10, 11, 30, 40, 41
	Data Point	DI: 8192 DO: 8192 AI: 2048 AO: 2048
Power		
Supply Voltage		+12 to +48 VDC
Consumption		4.8 W
Connector		3-pin removable terminal block
Mechanism	1	
Dimensions		35 mm x 167 mm x 119 mm
Casing		Metal
Installation		DIN-Rail
Environme	nt	
Operating Temp.		-25°C ~ +75°C
Storage Temp.		-30°C ~ +85°C
Humidity		10 ~ 90% RH, non-condensing

# Ordering Information

DNP-211-S CR	DNP3 Slave to Modbus TCP Client Gateway (RoHS)
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