



Request for Quotation

MDS IOX Solution Needs & Requirements



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Section 1: Define the inputs that will be wired to the MDS IOX Device

1.1 Select the Network Topology (check one) Point-to-Point (PtP) Point-to-Multipoint (PtMP)

How many remote sites will I/O data be collected from? (pick from list)

1.2 For each remote location, define the I/O types that will need to be connected to the MDS IOX unit
Select each that applies and indicate the approximate number of inputs needed

Analog 4 - 20 mA

Est # of Inputs Needed

Type of Input:

Analog 1 - 5 VDC

Est # of Inputs Needed

Type of Input:

Analog 0 - 10 VDC

Est # of Inputs Needed

Type of Input:

If Analog Input, do we need to provide power to the transmitter (sourcing the loop)?

Yes

No

Digital Inputs/Outputs (16 available):

| | |
|--------------------------------|----------------------------------|
| <input type="text"/> | <input type="text"/> |
| <i>Est. # of Digital Input</i> | <i>Est. # of Digital Outputs</i> |

NOTE: For each category above that is selected, please specify the type of input it is. For example, is it a Flowmeter, Level Transmitter, Pressure Transmitter, etc. Please be as specific as possible as it helps to define things on the host side.

Do you need the IO solution to support a HART device?

Yes No

Is the device HART Ready?

Yes No

1.3 What is your MDS Orbit communication link preference to send the data back to the host? (select one)

Cellular

Enhanced WiFi

Licensed Radio Frequency (FHSS, UHF, VHF, etc.)

Fiber (Multimode or Single Mode, 2Km or 30Km)

Unlicensed 900MHz

Ranger: 4GLTE Cloud-Instance

1.4 Will this be replacing a NETio System?

Type of Expansion Module 1 2 3 4 6 7



Section 2: Host Site & Head End Requirements:

2.1 What outputs are required at the Head End that would need to be collected by the Host system?

- Point-to-Point (PtP) Point-to-Multipoint (PtMP)

If **Point-to-Multipoint (PtMP)**, please indicate:

How many remote sites will be connected:

For each site:

How many will have analog inputs:

How often do we need to collect analog IO:

How many will have digital inputs:

How often do we need to collect digital IO:

For each remote site, define the output needed (Analog/Relay output? Amp&Voltage?)

2.2 What is the Host at the head end location that will be collecting the data from the Remote site or sites?

Define PLC, DCS, Computer, etc., please include manufacturer, make and model:

2.3 How do you plan on collecting from the remote site(s) into your Host System? (Select each one that applies)

Please note: the MDS IO solution can support both, simultaneously, if needed

- Signal Regeneration/IO Mirroring
 Digital Communication Protocol

If **Digital Communication Protocol**, please indicate what type:

- | | | |
|---|---|--|
| <input type="checkbox"/> Modbus TCP (Standard) | <input type="checkbox"/> Modbus RTU (Standard) | <input type="checkbox"/> DNP (requires MDS IOX-T Configuration) |
| <input type="checkbox"/> OPC UA (requires MDS IOX-T configuration form) | <input type="checkbox"/> MQTT (requires MDS IOX-T configuration form) | <input type="checkbox"/> Allen Bradley EtherNET/IP (requires MDS IOX-T configuration form) |
| <input type="checkbox"/> SNMP (requires MDS IOX-T configuration form) | | |



Section 3: Host Site / Head Site Mounting Information

3.1 How would you like to mount the MDS I/O Solution? (select one)

- Accessory Plate

Note: this can be mounted in existing MDS WSG-P70s or used as a small, assembled plate

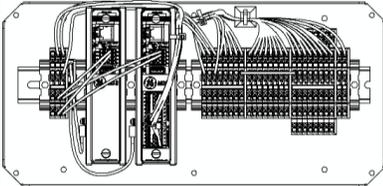


Figure 1: Example diagram of an Accessory Plate mounting showing IOX-T, IOX-R, 26 IO Assembly
Dimensions: 178 mm (H), x 178 mm (D), x 368 mm (W) | 7.0" x 7.0" x 14.5"

- Wall Plate

Note: this can be mounted on a wall, inside a rack or a drop in for a new IOX enclosure

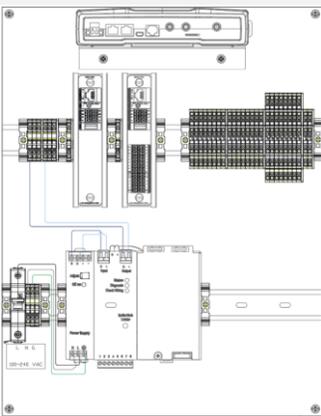


Figure 2: Example diagram of a wall plate mounting showing IOX-T, IOX-R, 26 IO Assembly with an MDS Orbit and AC with battery backup
Dimensions: 178 mm (H), x 178 mm (W), x 368 mm (W) | 7.0" x 7.0" x 14.5"

3.2 If mounting in an enclosure:

Power Input Required? Yes No

If AC Power, Battery Required? 5 AH 12 AH No Battery

MDS Orbit Radio to be install? Yes No



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Section 3: Host Site / Head Site Mounting Information Continued

3.3 Summary of application & special requests:

Please describe overall application requirements and/or other details that are unique to your network

3.4 Please specify any TAG #ID's that may be required by location

(i.e.: Two units in a PtP, do you need the units labeled with specific location identifiers?
Water Tower #xx, Tower ###, Pump Station xxx)

ID #1: _____ ID #2: _____ ID #3: _____ ID #4: _____ ID #5: _____

ID #6: _____ ID #7: _____ ID #8: _____ ID #9: _____ ID #10: _____

Section 4: Customer Contact Details

First Name:

Last Name:

Company:

Phone Number:

Email:

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