



Communications Module
ETHERNET GATEWAY(EJ5226-##)

BACKGROUND

AT10.1 & AT30 Series microprocessor-controlled float battery chargers can be equipped with an optional Communication Module (p/n EJ5037-0#) for SCADA applications. That option permits industry-standard **DNP3 Level 2** and **Modbus** data protocols from and to the unit. Standard user-accessed terminal blocks (TB10/TB11) are supplied on the Communications Module PC Board (A12), which provide "serial" connections for both RS-485 and RS-232 standards. A separate *Operating Instructions* ([JA0102-04.pdf](#)) is included with the charger documentation package, fully detailing configuration of the standard AT Communications Module.

GATEWAY

With *this* option (p/n **EJ5226-##**) a supplemental third-party *Ether Series* gateway (A22) is installed into the AT Series charger for user Ethernet communications. To facilitate this pairing, the RS-485 serial connector (TB10) on the AT Series Communications Module pc board (A12) is wired to COM1 on the Ethernet Gateway (A22). A standard RJ45 Cat 5 Ethernet plug-in connector (labeled **10/100 LAN**) is supplied on the gateway, for user data access from and to the AT Series Communications Module. A separate power supply (A24), which runs off the system dc bus, is also supplied to power the gateway (A22).

Refer to the option standard drawing ([EJ5226-XX.pdf](#)) for system wiring. The third party supplier's *User's Guide* ([EDNP-3](#) / [EMB-2](#)) is also included with the AT Series charger, detailing configuration of the Ethernet Gateway. Online versions of related documents are available for download, should any need to be replaced or archived in electronic format.

Doc. No	Online Hyperlink	Description
JA5109-00	http://www.ATSeries.net/PDFs/JA5109-00.pdf	AT Ethernet Gateway Instructions (<i>this sheet</i>)
EJ5226-XX	http://www.ATSeries.net/PDFs/EJ5226-XX.pdf	AT Ethernet Gateway Wiring Standard
n/a	http://www.ATSeries.net/PDFs/EDNP-3UsersGuide.pdf	3rd Party Ethernet Gateway User's Guide (DNP-3)
n/a	http://www.ATSeries.net/PDFs/EMB-2UsersGuide.pdf	3rd Party Ethernet Gateway User's Guide (Modbus)
JA0102-04	http://www.ATSeries.net/PDFs/JA0102-04.pdf	AT Communications Module Manual
n/a	http://www.ATSeries.net/PDFs/RS422+485AppNote.pdf	3rd Party RS-422 & RS-485 Application Note
JC5020-00	http://www.ATSeries.net/PDFs/JC5020-01.pdf	AT Series Charger Quick Setup Sheet
JD5030-01	http://www.ATSeries.net/PDFs/JD5030-01.pdf	Gateway Field Installation (Style-586/594)
JD5030-02	http://www.ATSeries.net/PDFs/JD5030-02.pdf	Gateway Field Installation (Style-5017/5018)
JD5030-03	http://www.ATSeries.net/PDFs/JD5030-03.pdf	Gateway Field Installation (Style-5030)
JD5030-04	http://www.ATSeries.net/PDFs/JD5030-04.pdf	Gateway Field Installation (Style-163/198)
JA0102-01	http://www.ATSeries.net/PDFs/JA0102-01.pdf	AT10.1 G1 battery charger O&SI Manual
JA0102-02	http://www.ATSeries.net/PDFs/JA0102-02.pdf	AT10.1 G2 battery charger O&SI Manual
JA0102-03	http://www.ATSeries.net/PDFs/JA0102-03.pdf	AT30 battery charger O&SI Manual

COMPATIBILITY

The AT Series Communications Module (p/n EJ5037-0#), and therefore the supplemental Ethernet Gateway (p/n **EJ5226-##**), is not compatible with certain *older* AT Series battery chargers. Please confirm the revision of the AT Series Main Control PC Board (A1) is **Rev. 6** or higher. If not, please order a new pc board (p/n **EN5002-00.**) from your sales representative.

PROCEDURE FOR USE

1. Shut down the AT Series battery charger per the *Operating and Service Instructions*.
2. Open the charger front panel (door) and remove any supplied acrylic safety shields.
3. The standard AT Series Communications Module (p/n EJ5037-0#), and supplemental Ethernet Gateway (p/n EJ5226-##), should both be pre-installed into the charger.
4. Identify the Communications Module PC Board (A12) connected to the left side of the Main Control PC Board (A1), mounted to the back side of the front panel door. See **Figure 1** below.
5. Locate the *Ether Series* gateway (A22) inside the charger assembly, see **Figure 2** below. It will be mounted to a green pc board, along with a small power supply (A24).
6. Identify the RJ45 Cat 5 Ethernet plug-in connector (labeled **10/100 LAN**) on the gateway.
7. Insert the *user-supplied* site Ethernet connection into the plug-in connector.
8. Replace the acrylic safety shield (if supplied).
9. Close the AT Series battery charger front panel door.
10. Restart the AT Series battery charger per the unit's *Operating and Service Instructions*, by closing the dc circuit breaker (CB2) **first**, followed by the ac circuit breaker (CB1) **second**.
11. The Ethernet Gateway (A22) will default to IP address **192.168.1.1**.
12. Refer to the third party supplier's *User's Guide* ([EDNP-3](#) / [EMB-2](#)) for instructions on how to configure the *Ether Series* gateway (A22).
13. Refer to the AT Series Communications Module *Operating Instructions* ([JA0102-04.pdf](#)) for instructions on how to configure the AT Series charger for remote communications.
14. For trouble-shooting of the Communications system wiring, please refer to the option standard drawing ([EJ5226-XX.pdf](#)).

REFERENCE IMAGES

<p align="center">Figure 1 AT Series Communications PC Board (A12) - EN5004-00 Connected to AT Main Control PC Board (A1) - EN5002-00</p>	<p align="center">Figure 2 Modbus Ether Series Gateway (A22) - PM5025-00 DNP3 Level 2 Ether Series Gateway (A22) - PM5025-01</p>