

## MicroNet TMR™ Upgrades

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### *Product Change / Improvement*

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Woodward has released a key upgrade for 5200-based MicroNet TMR. This upgrade enables the CPU CANOpen ports for use with LinkNet HT distributed I/O, SPC CANOpen Servo Controller and multiple Woodward CAN-protocol valves and actuators. There are six independent CAN ports available (2 per kernel). Redundancy can be achieved where necessary by wiring the can networks across 2 CPUs.

This release certifies the TMR to Achilles L1 Cybersecurity and includes several new Coder-related features.

The MicroNet TMR Product Specification 03363 Rev E includes the updates.

In addition to our standard software review and regression testing procedures, this release underwent an intense system testing program to further insure software quality.

This upgrade can be accomplished in the field if you have a 5466-1247 CPUs and 5466-1246 RTNs. The older 5466-1047 CPUs are not field upgradable. 5466-1047 Rev. F or later can be upgraded at the factory.

New part numbers are as follows:

- 5466-1347 Module, MicroNet TMR CPU5200
- MicroNet TMR Coder 1.01

**Note:** both CPU and Coder must be upgraded together. If using RTNs with the -1347 CPU, they must be 5466-1246.

Field upgrade of CPUs from 5466-1247 to -1347 can be accomplished with Service Pack 9927-2717. It is highly recommended to use Woodward, OEM or Woodward Channel Partner personnel to perform the upgrade to insure that no unexpected issues occur and to have the CPU part number updated in Woodward's records.

### *Key Feature Additions*

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The following new GAP blocks and functions have been added to this TMR release:

PID_OPTI	RATIOLIM2	IP_ADDRESS
RUNNING_AVG	S_LIST	SMUX_S_N
SERVLINK	RTN_DR	Daylight Savings Time on RTC
SYS_LOAD_PEAK on SYS_INFO	Logical OR output on LATCH_AE and LATCH1	Ability to specify delimiter between COM_1 and COM_2

Please refer to Release Notes and download GAP MicroNet TMR 1.00 and refer to GAP HELP for more information.

### *Minor Upgrades and Issues Addressed in this TMR Release*

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Please refer to Release Notes for more information.

## Customer Action

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Use the 5466-1347 CPU, 5466-1246 RTN and Coder TMR 1.01 for all new systems. Users with existing systems and 5466-1047 CPU modules who wish to upgrade will need to verify Rev F or later and return the CPUs and RTNs to the factory for update.

For additional information and support:

1. Contact your local Woodward representative and/or turbine OEM.
  2. Woodward contact and business partner information can be obtained at [www.woodward.com](http://www.woodward.com).
  3. Technical assistance can be obtained by:
    - a. Searching for a local contact at [www.woodward.com/directory](http://www.woodward.com/directory)
    - b. Call or email the Woodward Turbine Help Desk: 1-970-498-3095  
[TurbineHelpDesk@woodward.com](mailto:TurbineHelpDesk@woodward.com)
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