

## Tixi HSM-HNG Modem for Mitsubishi FX Remote Access

QI-MMFX-EN, V1.2  
May 04, 2009

### 1 Working setup examples

The following setup configurations have been successfully tested.

#### 1.1 Tixi HSM to Tixi HSM

##### Local side:

Modem: Tixi HSM

Modem init: AT%C0"H0&D0&K0&W+TFORMAT="8X1"

GX Developer setting (dialup via "TEL(FX)"):

COM port settings: 9600/7E1

"via MAC/MTA": disabled

"Check at communication time" = 10s

"Retry times" = 0

##### Remote side:

Modem: Tixi HSM

FX serial port setting: 9600/7E1

Modem init: AT%C0"H0E0Q1V1S0=2&D0&K0&W+TFORMAT="7E1";+TBAUD="9600"

### 2 GSM Note

Communication via GSM is not recommended because of timing issues in the GX (IEC) developer software. The "communication test" does not work and project transfer is not reliable.

#### 2.1 Tixi HSM to Tixi HNG

##### Local side:

Modem: Tixi HSM

Modem init: AT%C0"H0&D0&K0&W+TFORMAT="8X1"

Dialup via HMI-Tools ("TEL (FX)" doesn't support 7E1).

GX (IEC) Developer 7.00 setting (GX Developer not supported):

->Online->Transfer Setup->Serial -> 9600bps 7E1

->Online->Transfer Setup->PLC Module -> activate "via MAC/MTA transparent mode"

->Online->Transfer Setup->Other Station, No Spec -> 10s / 5 times

->Online->Transfer Setup->Modem -> activate "use GSM synchronisation" with 5000ms and "additional synchronisation for direct memory access" with 5000ms and 10 retries.

##### Remote side:

Modem: Tixi HNG

FX serial port setting: 9600/7E1

Modem init: AT+WRST=1,"024:03";+IPR=9600;+IFC=0,0;+ICF=5,1;E1V1Q1S0=2&W