

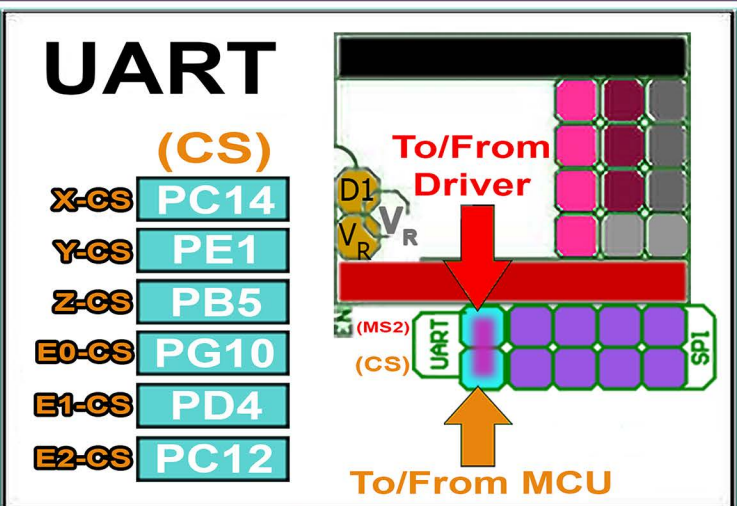
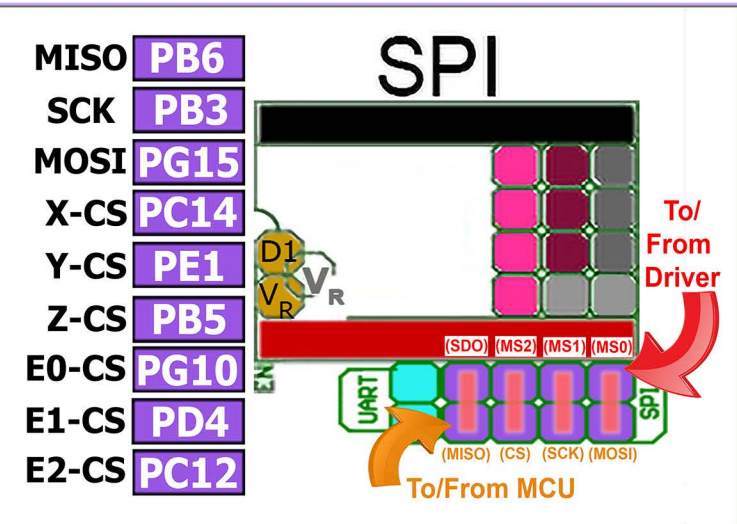
**Marlin 2.0.x Firmware Changes**

In Platform.ini file change: `default_envs =`

In Configuration.h file change:  
`#define SERIAL_PORT -1`  
`#define SERIAL_PORT_2 3`  
`#define MOTHERBOARD MOTHERBOARD_BOARD_BTT_GTR_V1_0`

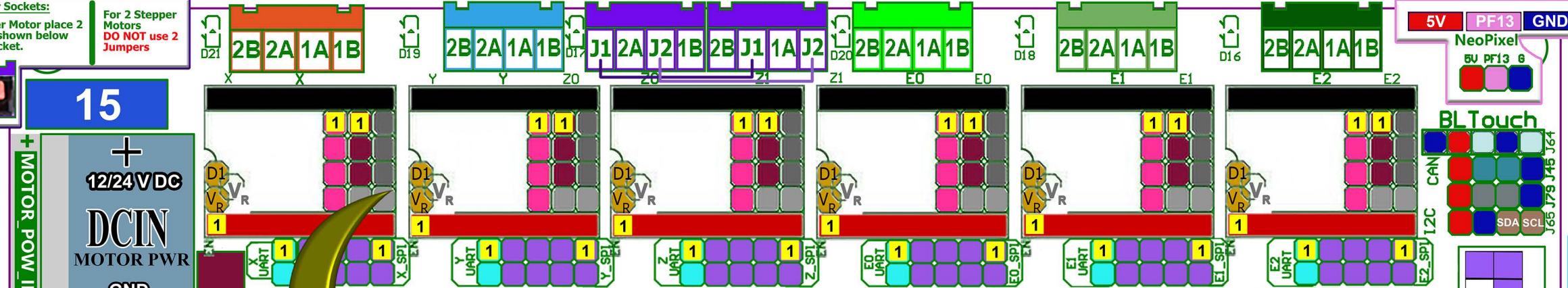
**Note:** Serial Port definitions in Marlin 2.0.x for GTR V1.0 Board:  
 -1: USB Port; 3: TFT Port; 6: WIFI

- |                            |             |
|----------------------------|-------------|
| 0 - M1; MS1                | 0 - M0; MS0 |
| 1 - M2; MS2 OR 1 - M1; MS1 |             |
| 2 - M3; MS3                | 2 - M2; MS2 |



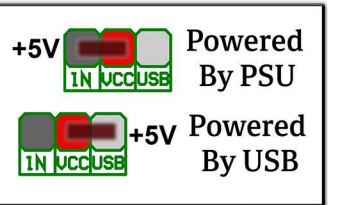
\*1 THE CORRECTED PIN VALUE. THE CORRECT PIN VALUE CAME FROM BTT's GTR V1.0 SCHEMATIC DIAGRAM!

Z Motor Sockets:  
 For 1 Stepper Motor place 2 Jumpers as shown below in the Z1 Socket.  
 For 2 Stepper Motors DO NOT use 2 Jumpers

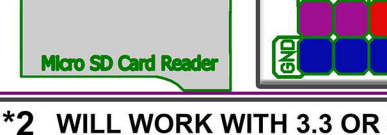
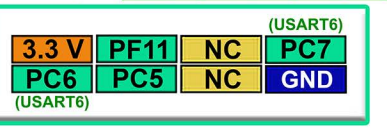
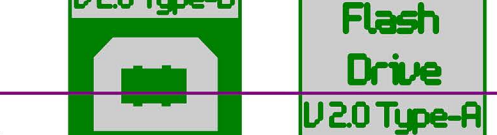
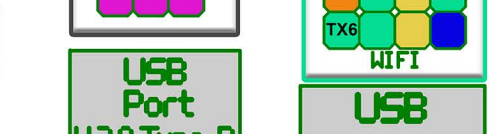
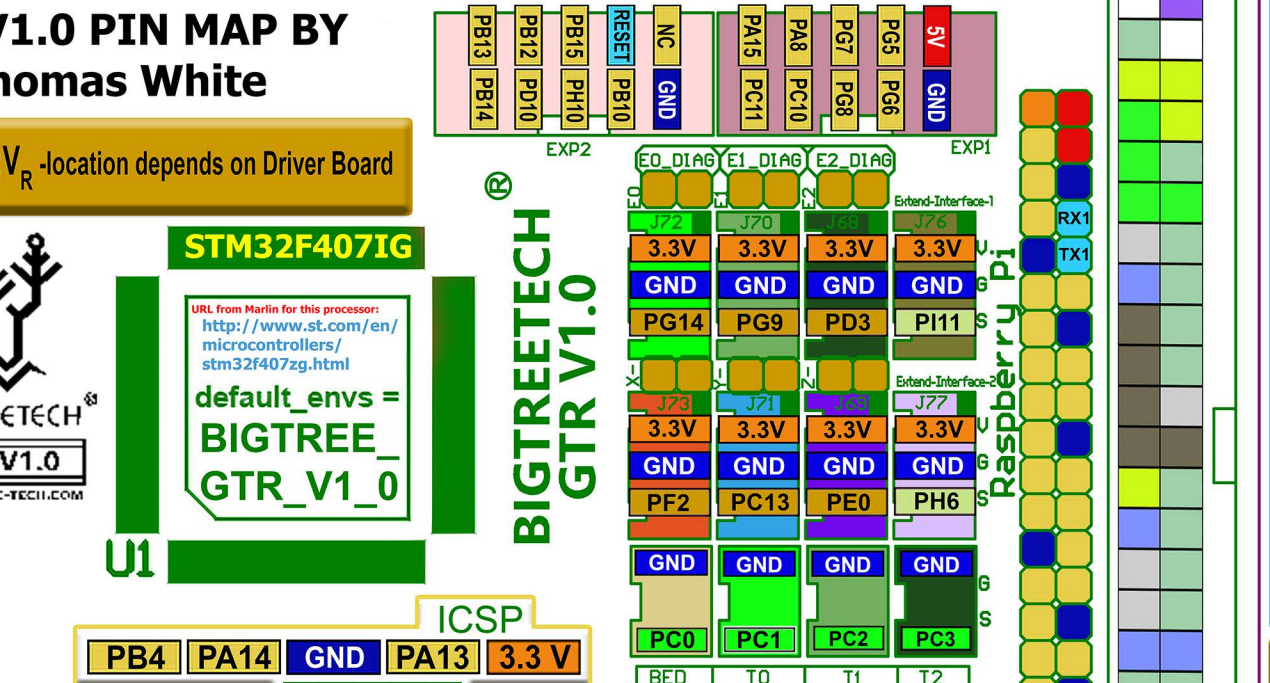
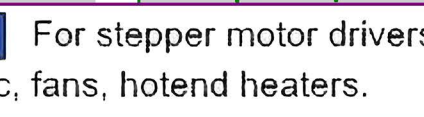
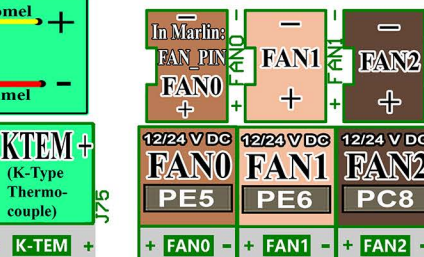
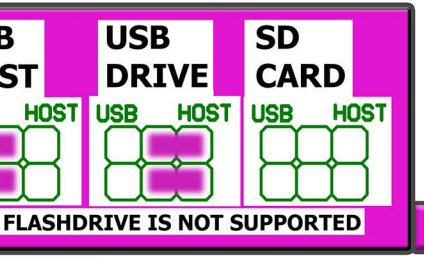


**REDESIGNED GTR V1.0 PIN MAP BY GadgetAngel and Thomas White**

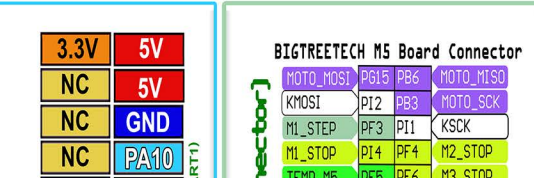
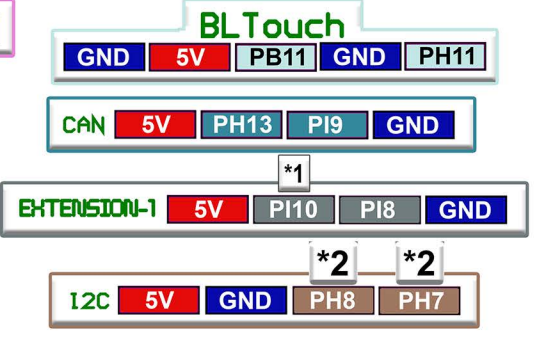
D1-DIAG1; V<sub>R</sub>-V<sub>ref</sub>  
 V<sub>R</sub>:V<sub>R</sub> -location depends on Driver Board



**STM32F407IG**  
 URL from Marlin for this processor:  
<http://www.st.com/en/microcontrollers/stm32f407zg.html>  
`default_envs =`  
`BIGTREE`  
`GTR_V1_0`



\*2 WILL WORK WITH 3.3 OR 5V. A LOT OF PINS ARE 5V TOLERANT. ONLY TESTED I2C - CHECK DATASHEET AND SCHEMATIC!



BIGTREETECH M5 Board Connector	
MOTO_MOSI	PG15
MOTO_MISO	PG16
MOTO_SCK	PG17
M1_STEP	PF3
M1_STOP	PF4
M2_STEP	PF5
M2_STOP	PF6
M3_STEP	PF7
M3_STOP	PF8
M4_STEP	PF9
M4_STOP	PF10
M1_EN	PF11
M1_DIR	PF12
M2_EN	PF13
M2_DIR	PF14
M3_EN	PF15
M3_DIR	PF16
M4_EN	PF17
M4_DIR	PF18
M5_EN	PF19
M5_DIR	PF20
M5_CS	PF21
M5_STEP	PF22
M5_STOP	PF23
M5_CS	PF24
M5_STEP	PF25
M5_STOP	PF26
M5_CS	PF27
M5_STEP	PF28
M5_STOP	PF29
M5_CS	PF30
M5_STEP	PF31
M5_STOP	PF32
M5_CS	PF33
M5_STEP	PF34
M5_STOP	PF35
M5_CS	PF36
M5_STEP	PF37
M5_STOP	PF38
M5_CS	PF39
M5_STEP	PF40
M5_STOP	PF41
M5_CS	PF42
M5_STEP	PF43
M5_STOP	PF44
M5_CS	PF45
M5_STEP	PF46
M5_STOP	PF47
M5_CS	PF48
M5_STEP	PF49
M5_STOP	PF50
M5_CS	PF51
M5_STEP	PF52
M5_STOP	PF53
M5_CS	PF54
M5_STEP	PF55
M5_STOP	PF56
M5_CS	PF57
M5_STEP	PF58
M5_STOP	PF59
M5_CS	PF60
M5_STEP	PF61
M5_STOP	PF62
M5_CS	PF63
M5_STEP	PF64
M5_STOP	PF65
M5_CS	PF66
M5_STEP	PF67
M5_STOP	PF68
M5_CS	PF69
M5_STEP	PF70
M5_STOP	PF71
M5_CS	PF72
M5_STEP	PF73
M5_STOP	PF74
M5_CS	PF75
M5_STEP	PF76
M5_STOP	PF77
M5_CS	PF78
M5_STEP	PF79
M5_STOP	PF80
M5_CS	PF81
M5_STEP	PF82
M5_STOP	PF83
M5_CS	PF84
M5_STEP	PF85
M5_STOP	PF86
M5_CS	PF87
M5_STEP	PF88
M5_STOP	PF89
M5_CS	PF90
M5_STEP	PF91
M5_STOP	PF92
M5_CS	PF93
M5_STEP	PF94
M5_STOP	PF95
M5_CS	PF96
M5_STEP	PF97
M5_STOP	PF98
M5_CS	PF99
M5_STEP	PF100
M5_STOP	PF101
M5_CS	PF102
M5_STEP	PF103
M5_STOP	PF104
M5_CS	PF105
M5_STEP	PF106
M5_STOP	PF107
M5_CS	PF108
M5_STEP	PF109
M5_STOP	PF110
M5_CS	PF111
M5_STEP	PF112
M5_STOP	PF113
M5_CS	PF114
M5_STEP	PF115
M5_STOP	PF116
M5_CS	PF117
M5_STEP	PF118
M5_STOP	PF119
M5_CS	PF120
M5_STEP	PF121
M5_STOP	PF122
M5_CS	PF123
M5_STEP	PF124
M5_STOP	PF125
M5_CS	PF126
M5_STEP	PF127
M5_STOP	PF128
M5_CS	PF129
M5_STEP	PF130
M5_STOP	PF131
M5_CS	PF132
M5_STEP	PF133
M5_STOP	PF134
M5_CS	PF135
M5_STEP	PF136
M5_STOP	PF137
M5_CS	PF138
M5_STEP	PF139
M5_STOP	PF140
M5_CS	PF141
M5_STEP	PF142
M5_STOP	PF143
M5_CS	PF144
M5_STEP	PF145
M5_STOP	PF146
M5_CS	PF147
M5_STEP	PF148
M5_STOP	PF149
M5_CS	PF150
M5_STEP	PF151
M5_STOP	PF152
M5_CS	PF153
M5_STEP	PF154
M5_STOP	PF155
M5_CS	PF156
M5_STEP	PF157
M5_STOP	PF158
M5_CS	PF159
M5_STEP	PF160
M5_STOP	PF161
M5_CS	PF162
M5_STEP	PF163
M5_STOP	PF164
M5_CS	PF165
M5_STEP	PF166
M5_STOP	PF167
M5_CS	PF168
M5_STEP	PF169
M5_STOP	PF170
M5_CS	PF171
M5_STEP	PF172
M5_STOP	PF173
M5_CS	PF174
M5_STEP	PF175
M5_STOP	PF176
M5_CS	PF177
M5_STEP	PF178
M5_STOP	PF179
M5_CS	PF180
M5_STEP	PF181
M5_STOP	PF182
M5_CS	PF183
M5_STEP	PF184
M5_STOP	PF185
M5_CS	PF186
M5_STEP	PF187
M5_STOP	PF188
M5_CS	PF189
M5_STEP	PF190
M5_STOP	PF191
M5_CS	PF192
M5_STEP	PF193
M5_STOP	PF194
M5_CS	PF195
M5_STEP	PF196
M5_STOP	PF197
M5_CS	PF198
M5_STEP	PF199
M5_STOP	PF200
M5_CS	PF201
M5_STEP	PF202
M5_STOP	PF203
M5_CS	PF204
M5_STEP	PF205
M5_STOP	PF206
M5_CS	PF207
M5_STEP	PF208
M5_STOP	PF209
M5_CS	PF210
M5_STEP	PF211
M5_STOP	PF212
M5_CS	PF213
M5_STEP	PF214
M5_STOP	PF215
M5_CS	PF216
M5_STEP	PF217
M5_STOP	PF218
M5_CS	PF219
M5_STEP	PF220
M5_STOP	PF221
M5_CS	PF222
M5_STEP	PF223
M5_STOP	PF224
M5_CS	PF225
M5_STEP	PF226
M5_STOP	PF227
M5_CS	PF228
M5_STEP	PF229
M5_STOP	PF230
M5_CS	PF231
M5_STEP	PF232
M5_STOP	PF233
M5_CS	PF234
M5_STEP	PF235
M5_STOP	PF236
M5_CS	PF237
M5_STEP	PF238
M5_STOP	PF239
M5_CS	PF240
M5_STEP	PF241
M5_STOP	PF242
M5_CS	PF243
M5_STEP	PF244
M5_STOP	PF245
M5_CS	PF246
M5_STEP	PF247
M5_STOP	PF248
M5_CS	PF249
M5_STEP	PF250
M5_STOP	PF251
M5_CS	PF252
M5_STEP	PF253
M5_STOP	PF254
M5_CS	PF255
M5_STEP	PF256
M5_STOP	PF257
M5_CS	PF258
M5_STEP	PF259
M5_STOP	PF260
M5_CS	PF261
M5_STEP	PF262
M5_STOP	PF263
M5_CS	PF264
M5_STEP	PF265
M5_STOP	PF266
M5_CS	PF267
M5_STEP	PF268
M5_STOP	PF269
M5_CS	PF270
M5_STEP	PF271
M5_STOP	PF272
M5_CS	PF273
M5_STEP	PF274
M5_STOP	PF275
M5_CS	PF276
M5_STEP	PF277
M5_STOP	PF278
M5_CS	PF279
M5_STEP	PF280
M5_STOP	PF281
M5_CS	PF282
M5_STEP	PF283
M5_STOP	PF284
M5_CS	PF285
M5_STEP	PF286
M5_STOP	PF287
M5_CS	PF288
M5_STEP	PF289
M5_STOP	PF290
M5_CS	PF291
M5_STEP	PF292
M5_STOP	PF293
M5_CS	PF294
M5_STEP	PF295
M5_STOP	PF296
M5_CS	PF297
M5_STEP	PF298
M5_STOP	PF299
M5_CS	PF300
M5_STEP	PF301
M5_STOP	PF302
M5_CS	PF303
M5_STEP	PF304
M5_STOP	PF305
M5_CS	PF306
M5_STEP	PF307
M5_STOP	PF308
M5_CS	PF309
M5_STEP	PF310
M5_STOP	PF311
M5_CS	PF312
M5_STEP	PF313
M5_STOP	PF314
M5_CS	PF315
M5_STEP	PF316
M5_STOP	PF317
M5_CS	PF318
M5_STEP	PF319
M5_STOP	PF320
M5_CS	PF321
M5_STEP	PF322
M5_STOP	PF323
M5_CS	PF324
M5_STEP	PF325
M5_STOP	PF326
M5_CS	PF327
M5_STEP	PF328
M5_STOP	PF329
M5_CS	PF330
M5_STEP	PF331
M5_STOP	PF332
M5_CS	PF333
M5_STEP	PF334
M5_STOP	PF335
M5_CS	PF336
M5_STEP	PF337
M5_STOP	PF338
M5_CS	PF339
M5_STEP	PF340
M5_STOP	PF341
M5_CS	PF342
M5_STEP	PF343
M5_STOP	PF344
M5_CS	PF345
M5_STEP	PF346
M5_STOP	PF347
M5_CS	PF348
M5_STEP	PF349
M5_STOP	PF350
M5_CS	PF351
M5_STEP	PF352
M5_STOP	PF353
M5_CS	PF354
M5_STEP	PF355
M5_STOP	PF356
M5_CS	PF357
M5_STEP	PF358
M5_STOP	PF359
M5_CS	PF360
M5_STEP	PF361
M5_STOP	PF362
M5_CS	PF363
M5_STEP	PF364
M5_STOP	PF365
M5_CS	PF366
M5_STEP	PF367
M5_STOP	PF368
M5_CS	PF369
M5_STEP	PF370
M5_STOP	PF371
M5_CS	PF372
M5_STEP	PF373
M5_STOP	PF374
M5_CS	PF375
M5_STEP	PF376
M5_STOP	PF377
M5_CS	PF378
M5_STEP	PF379
M5_STOP	PF380
M5_CS	PF381
M5_STEP	PF382
M5_STOP	PF383
M5_CS	PF384
M5_STEP	PF385
M5_STOP	PF386
M5_CS	PF387
M5_STEP	PF388
M5_STOP	PF389
M5_CS	PF390
M5_STEP	PF391
M5_STOP	PF392
M5_CS	PF393
M5_STEP	PF394
M5_STOP	PF395
M5_CS	PF396
M5_STEP	PF397
M5_STOP	PF398
M5_CS	PF399
M5_STEP	PF400
M5_STOP	PF401
M5_CS	PF402
M5_STEP	PF403
M5_STOP	PF404
M5_CS	PF405
M5_STEP	PF406
M5_STOP	PF407
M5_CS	PF408
M5_STEP	PF409
M5_STOP	PF410
M5_CS	PF411
M5_STEP	PF412
M5_STOP	PF413
M5_CS	PF414
M5_STEP	PF415
M5_STOP	PF416
M5_CS	PF417
M5_STEP	PF418
M5_STOP	PF419
M5_CS	PF420
M5_STEP	PF421
M5_STOP	PF422
M5_CS	PF423
M5_STEP	PF424
M5_STOP	PF425
M5_CS	PF426
M5_STEP	PF427
M5_STOP	PF428
M5_CS	PF429
M5_STEP	PF430
M5_STOP	PF431
M5_CS	PF432
M5_STEP	PF433
M5_STOP	PF434
M5_CS	PF435
M5_STEP	PF436
M5_STOP	PF437
M5_CS	PF438
M5_STEP	PF439
M5_STOP	PF440
M5_CS	PF441
M5_STEP	PF442
M5_STOP	PF443
M5_CS	PF444
M5_STEP	PF445
M5_STOP	PF446
M5_CS	PF447
M5_STEP	PF448
M5_STOP	PF449
M5_CS	PF450
M5_STEP	PF451
M5_STOP	PF452
M5_CS	PF453
M5_STEP	PF454
M5_STOP	PF455
M5_CS	PF456
M5_STEP	PF457
M5_STOP	PF458
M5_CS	PF459