



BCM 2604 Linear imager



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Introduction

Scanning a series of programming bar code labels can configure the scanner.

The scanner must be properly powered before programming.

During the programming mode, the scanner will acknowledge a good and valid reading with a short beep. It will give long beeps for either an invalid or bad reading.

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INTRODUCTION:

Scanning a series of programming bar code labels can configure the scanner. The scanner must be properly powered before programming. During the programming mode, the scanner will acknowledge a good and valid reading with a short beep. It will give long beeps for either an invalid or bad reading.

PROGRAMMING OPTIONS:

Programmable options are divided into 2 groups. The first group includes the options that show the general behaviour of the scanner. The second group sets the decoding parameters for each barcode symbology.

1 General Configuration

The BCM2604-L in its standard mode is in the "Configuration enable" mode. This means that just reading one barcode of this document will automatically change the settings proper of the barcode read.

For security reasons you may want to disable this mode : just scan the "Configuration inhibit after 1 minute".

configuration enable (*)



\46\50\60

configuration inhibit after 1 minute



\46\51\60

1.1 Reset all parameters:

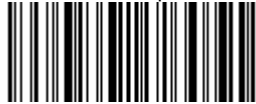
The reading of the "Default settings" label turns all the parameters back to default settings:



Reset factory defaults

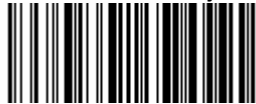
1.2 Trigger Activation

trigger activation - standard mode - active for read duration (2 s), repeat read duration after good



\46\5D\45\5D\02\46\4C\60

trigger activation - standard mode - active for read duration (2 s), standby after good read



\46\5D\45\5D\02\46\4D\60

trigger activation - standard mode - active while trigger pressed, standby after good read (*)



\46\5D\46\5A\03\3F\46\4D\60

autostand mode - active for activation cycle duration (10 s), repeat activation cycle after good rea



\4C\40\01\47\50\46\4D\47\51\0A\60

1.3 Data Decoding Security

data decoding security - predefined security levels - normal (*)



\45\4E\00\60

data decoding security - predefined security levels - medium



\45\4E\01\60

data decoding security - predefined security levels - high



\45\4E\02\60

data decoding security - consecutive same read data validation - single read before transmission (*)



\45\4B\01\60

data decoding security - timeout between identical consecutive codes - 300 ms (*)



\45\4C\04\2C\60

data decoding security - timeout between different consecutive codes - none (*)



\45\4D\0A\60

1.4 Beeps and Leds Settings

You can use this option to set frequency and / or duration of the buzzer and / or the colour of the Led after successful reading.

beeps / green indicator LED - note (tone frequency) - high (2093.04 Hz) (*)



\4B\46\07\1E\60

beeps / green indicator LED - note (tone frequency) - compose frequency (Hz): 2731



\4B\46\05\2E\60

beeps / green indicator LED - note (tone frequency) - low (1318.52 Hz)



\4B\46\0B\36\60

beeps / green indicator LED - power-up beeps / power-up LED - on



\45\5B\60

beeps / green indicator LED - note (tone frequency) - medium (1760 Hz)



\4B\46\08\38\60

beeps / green indicator LED - power-up beeps / power-up LED - off (*)



\45\5A\60

beeps / green indicator LED - good read beeps - number - 1 (*)



\45\4A\00\60

beeps / green indicator LED - good read beeps - number - 2



\45\4A\01\60

beeps / green indicator LED - good read beeps - number - none



\45\49\00\60

beeps / green indicator LED - good read beeps - duration - 60 ms



\45\49\3C\60

beeps / green indicator LED - good read beeps - duration - 80 ms (*)



\45\49\01\10\60

beeps / green indicator LED - good read beeps - duration - 200 ms



\45\49\03\08\60

beeps / green indicator LED - good read beeps - duration - 300 ms



\45\49\04\2C\60

beeps / green indicator LED - good read beeps - timing - after transmission



\45\51\60

beeps / green indicator LED - good read LED duration - 80 ms (*)



\45\4F\01\10\60

beeps / green indicator LED - good read LED duration - 0.5 sec



\45\4F\07\34\60

beeps / green indicator LED - good read LED duration - 1 sec



\45\4F\0F\28\60

beeps / green indicator LED - good read LED duration - 2.5 sec



\45\4F\27\04\60

beeps / green indicator LED - good read LED duration - 5 sec



\45\4F\01\0E\08\60

2 Symbologies settings:

2.1 Symbology Identifier

symbology identifier - AIM - not transmitted (*)



symbology identifier - AIM - transmitted



2.2 Disable All Symbologies

disable all symbologies



2.3 Codabar settings

Codabar - not active (*)



Codabar - start/stop - A, B, C, D



Codabar - active



Codabar - start/stop - a, b, c, d / t, n, *, e



Codabar - start/stop - not transmitted (*)



Codabar - start/stop - DC1, DC2, DC3, DC4



Codabar - start/stop - a, b, c, d



Codabar - CLSI library system - not active (*)

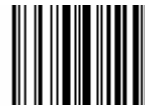


Codabar - CLSI library system - active (insert spaces)



\43\52\60

Codabar - check digit (AIM recommendation) - checked but not transmitted



\46\55\60

Codabar - check digit (AIM recommendation) - not used (*)



\46\56\60

Codabar - barcode length - any length



\43\55\00\60

Codabar - check digit (AIM recommendation) - checked and transmitted



\46\54\60

2.4 Code 11 Settings

Code 11 - not active (*)



\42\45\60

Code 11 - check digits - checked and transmitted (*)



\45\45\60

Code 11 - active



\42\44\60

Code 11 - check digits - checked but not transmitted



\45\46\60

Code 11 - check digits - 1 digit (*)



\45\43\60

Code 11 - barcode length - any length (*)



\45\48\00\60

Code 11 - check digits - 2 digits



\45\44\60

2.5 Code 39 settings

Code 39 - active (*)



\41\4C\60

Code 39 - not active



\41\4D\60

Code 39 - format - standard 43 characters (*)



\42\4A\60

Code 39 - format - full ASCII



\42\4B\60

Code 39 - reading range - extended (*)



\4C\4D\01\60

Code 39 - reading range - normal



\4C\4D\00\60

Code 39 - start/stop - not transmitted (*)



\42\4D\60

Code 39 - start/stop - transmitted



\42\4C\60

Code 39 - start/stop - accepted characters - * only (standard Code 39) (*)



\42\4E\02\60

Code 39 - start/stop - accepted characters - \$ only (Trioptic Code 39)



\42\4E\01\60

Code 39 - start/stop - accepted characters - \$ and * (standard and Trioptic Code 39)



\42\4E\03\60

Code 39 - check digit - not used (*)



\42\4F\60

Code 39 - check digit - modulo 43 - checked and transmitted



\42\50\60

Code 39 - check digit - modulo 43 - checked but not transmitted



\42\51\60

Code 39 - check digit - French CIP - checked and transmitted



\42\52\60

Code 39 - check digit - French CIP - checked but not transmitted



\42\53\60

Code 39 - barcode length - minimum length = 6



\42\5C\06\60

Code 39 - check digit - Italian CPI / Code 32 - checked and transmitted



\42\54\60

Code 39 - reading tolerance - high (*)



\4D\4B\00\60

Code 39 - check digit - Italian CPI / Code 32 - checked but not transmitted



\42\55\60

Code 39 - reading tolerance - medium



\4D\4B\01\60

Code 39 - barcode length - any length (*)



\42\5C\00\60

Code 39 - reading tolerance - low



\4D\4B\02\60

2.6 Code 93 Settings

Code 93 - not active (*)



\41\5F\60

Code 93 - barcode length - any length (*)



\45\42\00\60

Code 93 - active



\41\5E\60

Code 93 - barcode length - minimum length = 6



\45\42\06\60

2.7 Code 128 Settings

Code 128 / EAN 128 - not active (*)



\41\5B\60

Code 128 / EAN 128 - reading tolerance - high (*)



\4D\47\00\60

Code 128 / EAN 128 - active



\41\5A\60

Code 128 / EAN 128 - reading tolerance - medium



\4D\47\01\60

Code 128 / EAN 128 - EAN 128 identifier - include
]C1 identifier (*)



\47\5A\01\60

Code 128 / EAN 128 - reading tolerance - low



\4D\47\02\60

Code 128 / EAN 128 - EAN 128 identifier - remove
]C1 identifier



\47\5A\00\60

Code 128 / EAN 128 - ISBT 128 - not active (*)



\4C\48\00\60

Code 128 / EAN 128 - CIP 128 French
pharmaceutical codes - not active (*)



\47\5D\00\60

Code 128 / EAN 128 - ISBT 128 - active



\4C\48\01\41\5B\60

Code 128 / EAN 128 - CIP 128 French
pharmaceutical codes - active



\47\5D\01\60

Code 128 / EAN 128 - ISBT 128 - transmit - single
codes only (*)



\4A\48\00\60

Code 128 / EAN 128 - barcode length - any length (*)



\44\55\00\60

Code 128 / EAN 128 - ISBT 128 - transmit -
concatenated codes only



\4A\48\01\60

Code 128 / EAN 128 - barcode length - minimum
length = 6



\44\55\06\60

Code 128 / EAN 128 - ISBT 128 - transmit - single
codes / concatenated codes



\4A\48\02\60

Code 128 / EAN 128 - ISBT 128 - concatenate - authorized ISBT 128 code pairs only (*)



\4C\4A\00\60

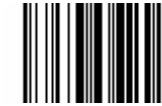
Code 128 / EAN 128 - ISBT 128 - concatenate - all ISBT 128 code pairs



\4C\4A\01\60

2.8 Interleaved 2 of 5 Settings

Interleaved 2 of 5 - not active (*)



\41\4F\60

Interleaved 2 of 5 - check digit - French CIP HR - checked and transmitted



\43\41\60

Interleaved 2 of 5 - active



\41\4E\60

Interleaved 2 of 5 - check digit - French CIP HR - checked but not transmitted



\43\42\60

Interleaved 2 of 5 - check digit - not used (*)



\43\43\60

Interleaved 2 of 5 - barcode length - minimum length = 6 (*)



\43\45\06\60

Interleaved 2 of 5 - check digit - mod 10 - checked and transmitted



\42\5F\60

Matrix 2 of 5 - not active (*)



\42\41\60

Interleaved 2 of 5 - check digit - mod 10 - checked but not transmitted



\43\40\60

2.9 Matrix 2 of 5 Settings

Matrix 2 of 5 - active



\42\40\60

Matrix 2 of 5 - barcode length - any length



\46\59\00\60

Matrix 2 of 5 - barcode length - minimum length = 6 (*)



\46\59\06\60

2.10 MSI Code Settings

MSI Code - not active (*)



\41\59\60

MSI Code - check digit - double mod 10 - checked and transmitted



\44\5B\60

MSI Code - active



\41\58\60

MSI Code - check digit - double mod 10 - checked but not transmitted



\44\5D\60

MSI Code - check digit - mod 10 - checked and transmitted (*)



\44\5A\60

MSI Code - barcode length - any length



\44\5F\00\60

MSI Code - check digit - mod 10 - checked but not transmitted



\44\5C\60

MSI Code - barcode length - minimum length = 6 (*)



\44\5F\06\60

2.11 Plessey Code Settings

Plessey Code - not active (*)



\41\5D\60

Plessey Code - check digit - not transmitted (*)



\44\57\60

Plessey Code - active



\41\5C\60

Plessey Code - check digit - transmitted



\44\56\60

Plessey Code - barcode length - any length (*)



\44\59\00\60

Plessey Code - barcode length - minimum length = 6



\44\59\06\60

2.12 Standard 2 of 5 Settings

Standard 2 of 5 - not active (*)



\41\51\60

Standard 2 of 5 - check digit mod 10 - checked and transmitted



\43\48\60

Standard 2 of 5 - active



\41\50\60

Standard 2 of 5 - check digit mod 10 - checked but not transmitted



\43\49\60

Standard 2 of 5 - format - Identicon (6 start/stop bars) (*)



\43\47\60

Standard 2 of 5 - barcode length - any length



\43\4C\00\60

Standard 2 of 5 - format - Computer Identics (4 start/stop bars)



\43\46\60

Standard 2 of 5 - barcode length - minimum length = 6 (*)



\43\4C\06\60

Standard 2 of 5 - check digit mod 10 - not used (*)



\43\4A\60

2.13 Telepen Settings

Telepen - not active (*)



\42\43\60

Telepen - active



\42\42\60

Telepen - format - ASCII (*)



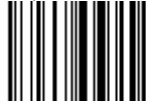
\47\4C\60

Telepen - barcode length - one character (*)



\47\4A\01\6

Telepen - format - numeric



\47\4B\60

2.14 UPC/ EAN Settings

UPC / EAN - active (*)



\41\56\60

UPC / EAN - EAN-13 deactivated



\44\40\60

UPC / EAN - not active



\41\57\60

UPC / EAN - reactivate all (UPC-A, UPC-E, EAN-8, EAN-13) (*)



\43\5C\60

UPC / EAN - UPC-A deactivated



\43\5D\60

UPC / EAN - add-on digits - not required but transmitted if read (*)



\44\43\60

UPC / EAN - UPC-E deactivated



\43\5E\60

UPC / EAN - add-on digits - required and transmitted



\44\42\60

UPC / EAN - EAN-8 deactivated



\43\5F\60

UPC / EAN - add-on digits - add-on 2 - not active (*)



\44\41\60

UPC / EAN - add-on digits - add-on 2 - active



\46\44\60

UPC / EAN - check digit - EAN-8 - not transmitted



\46\4A\60

UPC / EAN - add-on digits - add-on 5 - not active (*)



\46\46\60

UPC / EAN - check digit - EAN-13 - transmitted (*)



\46\47\60

UPC / EAN - add-on digits - add-on 5 - active



\46\45\60

UPC / EAN - check digit - EAN-13 - not transmitted



\46\48\60

UPC / EAN - check digit - UPC-A - transmitted (*)



\44\46\60

UPC / EAN - UPC number system - UPC-A - transmitted (*)



\44\44\60

UPC / EAN - check digit - UPC-A - not transmitted



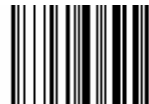
\44\47\60

UPC / EAN - UPC number system - UPC-A - not transmitted



\44\45\60

UPC / EAN - check digit - UPC-E - transmitted (*)



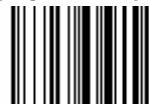
\44\4A\60

UPC / EAN - UPC number system - UPC-E - transmitted (*)



\44\48\60

UPC / EAN - check digit - UPC-E - not transmitted



\44\4B\60

UPC / EAN - UPC number system - UPC-E - not transmitted



\44\49\60

UPC / EAN - check digit - EAN-8 - transmitted (*)



\46\49\60

UPC / EAN - re-encoding UPC-A, UPC-E, EAN-8 - UPC-A transmitted as EAN-13 (*)



\44\4F\60

UPC / EAN - re-encoding UPC-A, UPC-E, EAN-8 -
UPC-A transmitted as UPC-A



\44\4E\60

UPC / EAN - re-encoding UPC-A, UPC-E, EAN-8 -
EAN-8 transmitted as EAN 8 (*)



\44\50\60

UPC / EAN - re-encoding UPC-A, UPC-E, EAN-8 -
UPC-E transmitted as UPC-E (*)



\44\4C\60

UPC / EAN - re-encoding UPC-A, UPC-E, EAN-8 -
EAN-8 transmitted as EAN-13



\44\51\60

UPC / EAN - re-encoding UPC-A, UPC-E, EAN-8 -
UPC-E transmitted as UPC-A



\44\4D\60

UPC / EAN - ISBN - not active (*)



\4C\49\00\60

UPC / EAN - ISBN - active



\4C\49\01\60

2.15 MicroPDF417 Settings

MicroPDF417 - active



\4D\45\01\60

MicroPDF417 - Code 128 emulation - active (*)



\4D\46\01\60

MicroPDF417 - not active (*)



\4D\45\00\60

MicroPDF417 - Code 128 emulation - not active



\4D\46\00\60

2.16 PDF 417 Settings

PDF417 - active (*)



\48\4D\60

PDF417 - not active



\48\4E\60

PDF417 - macro PDF - buffered (*)



\48\4F\01\60

PDF417 - macro PDF - optional fields - time stamp - not transmitted (*)



\48\53\00\60

PDF417 - macro PDF - unbuffered



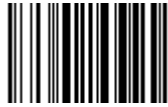
\48\4F\00\60

PDF417 - macro PDF - optional fields - time stamp - transmitted



\48\53\01\60

PDF417 - macro PDF - control header - not transmitted (*)



\48\50\00\60

PDF417 - macro PDF - optional fields - sender - not transmitted (*)



\48\54\00\60

PDF417 - macro PDF - control header - transmitted



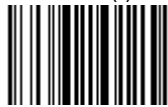
\48\50\01\60

PDF417 - macro PDF - optional fields - sender - transmitted



\48\54\01\60

PDF417 - macro PDF - optional fields - file name - not transmitted (*)



\48\51\00\60

PDF417 - macro PDF - optional fields - addressee - not transmitted (*)



\48\57\00\60

PDF417 - macro PDF - optional fields - file name - transmitted



\48\51\01\60

PDF417 - macro PDF - optional fields - addressee - transmitted



\48\57\01\60

PDF417 - macro PDF - optional fields - segment count - not transmitted (*)



\48\52\00\60

PDF417 - macro PDF - optional fields - file size - not transmitted (*)



\48\58\00\60

PDF417 - macro PDF - optional fields - segment count - transmitted



\48\52\01\60

PDF417 - macro PDF - optional fields - file size - transmitted



\48\58\01\60

PDF417 - macro PDF - optional fields - checksum - transmitted



\48\59\01\60

PDF417 - macro PDF - optional fields - checksum - not transmitted (*)



\48\59\00\60

2.17 RSS (RSS14, RSS Limited, RSS Expanded) Settings

RSS - RSS 14 - active



\4D\48\01\60

RSS - Expanded - inactive (*)



\4D\4A\00\60

RSS - RSS 14 - inactive (*)



\4D\48\00\60

RSS - Limited - active



\4D\49\01\60

RSS - Limited - inactive (*)



\4D\49\00\60

RSS - Expanded - active



\4D\4A\01\60