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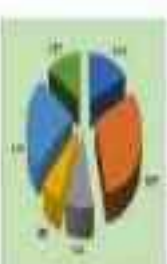

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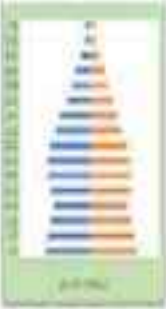

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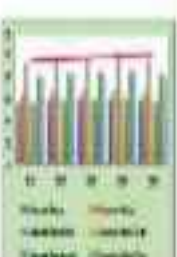

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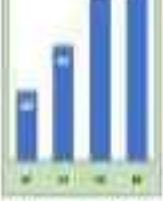

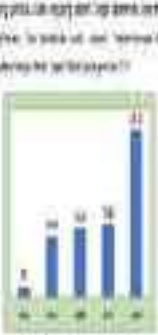

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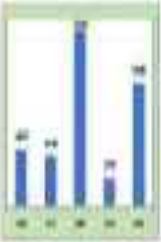

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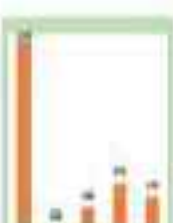

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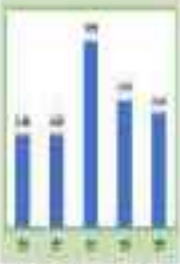

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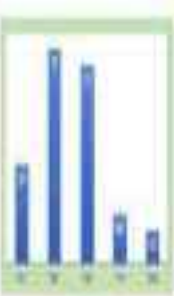

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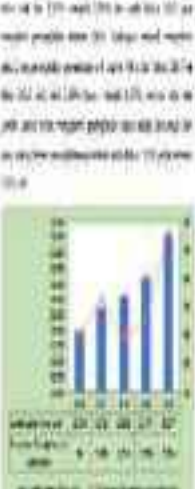

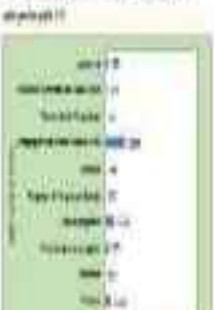

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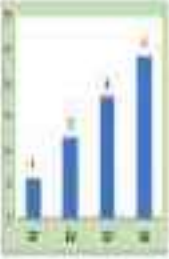

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Mikrokontrolery STM32 zawierają 12-bitowy przetwornik analogowo-cyfrowy o rozdzielczości 12 bitów, 16 kanałach wejściowych i szybkości konwersji do 1 Msps. Przetwornik ten pracuje w trybach pojedynczej konwersji oraz ciągłej konwersji z buforowaniem wyników w pamięci RAM. Wyzwalanie konwersji może być realizowane programowo lub sprzętowo przez timery lub zewnętrzne sygnały. Dostępne są także tryby skanowania kanałów z automatycznym zapisem wyników do tablicy w pamięci.

Tab. 12. Przykładowe wartości napięcia referencyjnego i rozdzielczości dla różnych wersji STM32

Lp.	Model	12	10	8	6	4
1	STM32F103C8T6 Cortex-M3 72 MHz Flash 64 kB RAM 20 kB USB 2.0 CAN 2.0 SPI I2C UART 37 GPIO 2×ADC 12 bit 16 kanałów 1 Msps 2×DAC 12 bit 2×timer 16 bit 2×timer 32 bit 7×timer 16 bit RTC LQFP48	3,3	3,3	3,3	3,3	3,3
2	STM32F103C8T6 Cortex-M3 72 MHz Flash 64 kB RAM 20 kB USB 2.0 CAN 2.0 SPI I2C UART 37 GPIO 2×ADC 12 bit 16 kanałów 1 Msps 2×DAC 12 bit 2×timer 16 bit 2×timer 32 bit 7×timer 16 bit RTC LQFP48	3,3	3,3	3,3	3,3	3,3
3	STM32F103C8T6 Cortex-M3 72 MHz Flash 64 kB RAM 20 kB USB 2.0 CAN 2.0 SPI I2C UART 37 GPIO 2×ADC 12 bit 16 kanałów 1 Msps 2×DAC 12 bit 2×timer 16 bit 2×timer 32 bit 7×timer 16 bit RTC LQFP48	3,3	3,3	3,3	3,3	3,3
4	STM32F103C8T6 Cortex-M3 72 MHz Flash 64 kB RAM 20 kB USB 2.0 CAN 2.0 SPI I2C UART 37 GPIO 2×ADC 12 bit 16 kanałów 1 Msps 2×DAC 12 bit 2×timer 16 bit 2×timer 32 bit 7×timer 16 bit RTC LQFP48	3,3	3,3	3,3	3,3	3,3
5	STM32F103C8T6 Cortex-M3 72 MHz Flash 64 kB RAM 20 kB USB 2.0 CAN 2.0 SPI I2C UART 37 GPIO 2×ADC 12 bit 16 kanałów 1 Msps 2×DAC 12 bit 2×timer 16 bit 2×timer 32 bit 7×timer 16 bit RTC LQFP48	3,3	3,3	3,3	3,3	3,3

Tab. 12. Przykładowe wartości napięcia referencyjnego i rozdzielczości dla różnych wersji STM32

Przetwornik może mierzyć napięcia w zakresie 0 V – 3,3 V. Wartość referencyjna 3,3 V zapewnia rozdzielczość 0,8 mV przy 12 bitach, 3,2 mV przy 10 bitach, 12,9 mV przy 8 bitach, 51,7 mV przy 6 bitach oraz 206,8 mV przy 4 bitach. Przy zasilaniu z baterii 3,0 V rozdzielczość spada odpowiednio do 0,7 mV, 2,9 mV, 11,7 mV, 46,9 mV oraz 187,5 mV. Przy zasilaniu z baterii 2,7 V rozdzielczość spada odpowiednio do 0,6 mV, 2,6 mV, 10,6 mV, 42,4 mV oraz 169,4 mV. Przy zasilaniu z baterii 2,4 V rozdzielczość spada odpowiednio do 0,5 mV, 2,3 mV, 9,4 mV, 37,7 mV oraz 150,6 mV. Przy zasilaniu z baterii 2,1 V rozdzielczość spada odpowiednio do 0,4 mV, 2,0 mV, 8,2 mV, 32,9 mV oraz 131,8 mV. Przy zasilaniu z baterii 1,8 V rozdzielczość spada odpowiednio do 0,3 mV, 1,7 mV, 7,0 mV, 28,2 mV oraz 112,9 mV. Przy zasilaniu z baterii 1,5 V rozdzielczość spada odpowiednio do 0,2 mV, 1,4 mV, 5,9 mV, 23,5 mV oraz 94,1 mV. Przy zasilaniu z baterii 1,2 V rozdzielczość spada odpowiednio do 0,1 mV, 1,1 mV, 4,7 mV, 18,8 mV oraz 75,3 mV. Przy zasilaniu z baterii 1,0 V rozdzielczość spada odpowiednio do 0,1 mV, 0,9 mV, 3,9 mV, 15,7 mV oraz 62,8 mV. Przy zasilaniu z baterii 0,9 V rozdzielczość spada odpowiednio do 0,1 mV, 0,8 mV, 3,5 mV, 14,1 mV oraz 56,5 mV. Przy zasilaniu z baterii 0,8 V rozdzielczość spada odpowiednio do 0,1 mV, 0,7 mV, 3,1 mV, 12,5 mV oraz 50,2 mV. Przy zasilaniu z baterii 0,7 V rozdzielczość spada odpowiednio do 0,1 mV, 0,6 mV, 2,7 mV, 10,9 mV oraz 43,9 mV. Przy zasilaniu z baterii 0,6 V rozdzielczość spada odpowiednio do 0,1 mV, 0,5 mV, 2,3 mV, 9,4 mV oraz 37,6 mV. Przy zasilaniu z baterii 0,5 V rozdzielczość spada odpowiednio do 0,1 mV, 0,4 mV, 1,9 mV, 7,8 mV oraz 31,3 mV. Przy zasilaniu z baterii 0,4 V rozdzielczość spada odpowiednio do 0,1 mV, 0,3 mV, 1,5 mV, 6,3 mV oraz 25,1 mV. Przy zasilaniu z baterii 0,3 V rozdzielczość spada odpowiednio do 0,1 mV, 0,2 mV, 1,1 mV, 4,7 mV oraz 18,8 mV. Przy zasilaniu z baterii 0,2 V rozdzielczość spada odpowiednio do 0,1 mV, 0,1 mV, 0,8 mV, 3,1 mV oraz 12,5 mV. Przy zasilaniu z baterii 0,1 V rozdzielczość spada odpowiednio do 0,1 mV, 0,1 mV, 0,4 mV, 1,6 mV oraz 6,3 mV. Przy zasilaniu z baterii 0,0 V rozdzielczość spada odpowiednio do 0,1 mV, 0,1 mV, 0,2 mV, 0,8 mV oraz 3,1 mV. Przy zasilaniu z baterii 0,0 V rozdzielczość spada odpowiednio do 0,1 mV, 0,1 mV, 0,1 mV, 0,4 mV oraz 1,6 mV. Przy zasilaniu z baterii 0,0 V rozdzielczość spada odpowiednio do 0,1 mV, 0,1 mV, 0,1 mV, 0,2 mV oraz 0,8 mV. Przy zasilaniu z baterii 0,0 V rozdzielczość spada odpowiednio do 0,1 mV, 0,1 mV, 0,1 mV, 0,1 mV oraz 0,4 mV. Przy zasilaniu z baterii 0,0 V rozdzielczość spada odpowiednio do 0,1 mV, 0,1 mV, 0,1 mV, 0,1 mV oraz 0,2 mV. Przy zasilaniu z baterii 0,0 V rozdzielczość spada odpowiednio do 0,1 mV, 0,1 mV, 0,1 mV, 0,1 mV oraz 0,1

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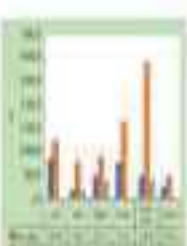

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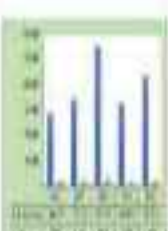

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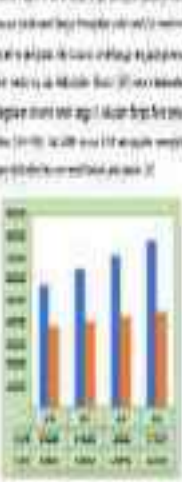

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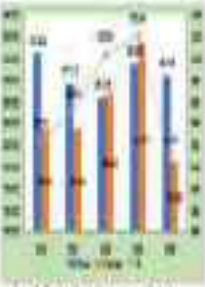

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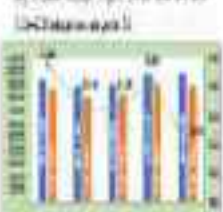

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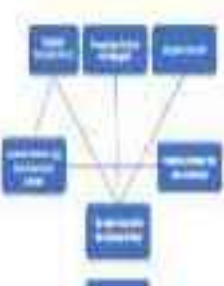

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BAB VI

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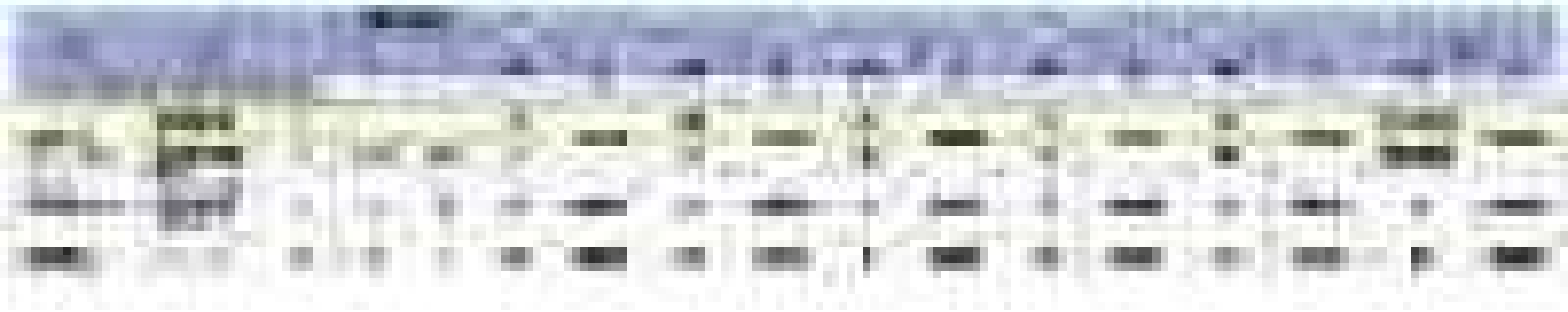

BAB VII

KERANGKA PENDANAAN PEMBANGUNAN DAN PROGRAM DAERAH

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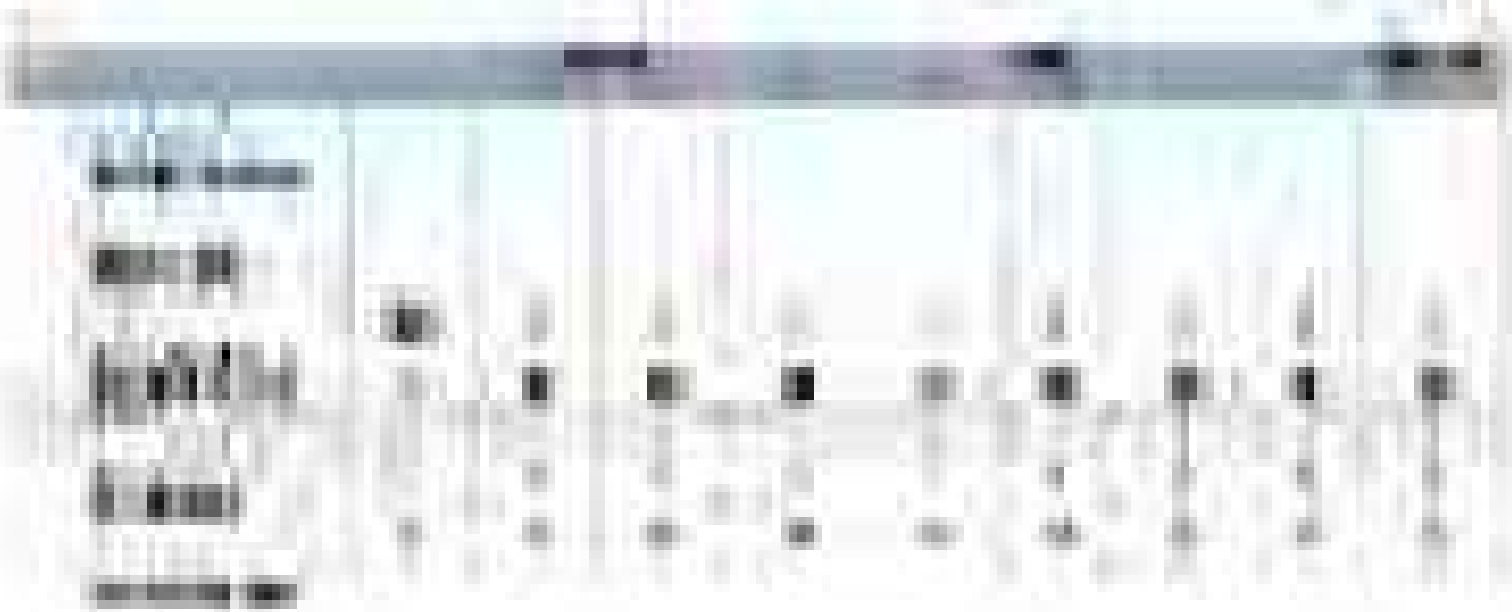

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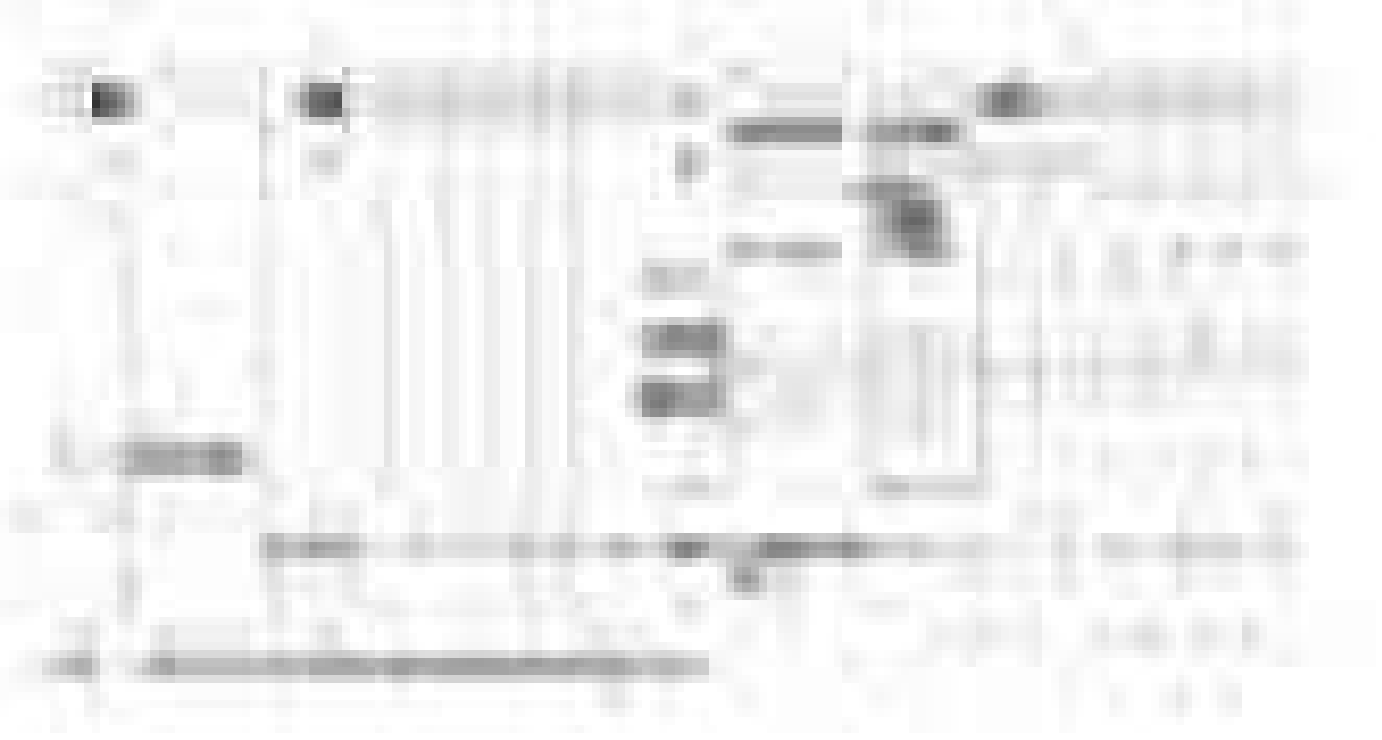

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