

№ 07-01

$$k_1 = 2$$

$$f_1 = 44 \text{ КГц}$$

$$i_1 = 16 \text{ сум}$$

$$I_1 = 120 \text{ Мбайт}$$

$$k_2 = 4$$

$$f_2 = 88 \text{ КГц}$$

$$I_2 = 720 \text{ Мбайт}$$

$$t_1 = t_2$$

$$i_2 = ?$$

$$I_1 = k_1 \cdot i_1 \cdot f_1 \cdot t_1$$

$$I_2 = k_2 \cdot i_2 \cdot f_2 \cdot t_2$$

$$\frac{I_2}{I_1} = \frac{k_2}{k_1} \cdot \frac{i_2}{i_1} \cdot \frac{f_2}{f_1} \cdot \frac{t_2}{t_1} =$$

$$= 2 \cdot \frac{i_2}{i_1} \cdot 2 \cdot 1 = 6 \Rightarrow$$

$$\frac{i_2}{i_1} = \frac{6}{4} = 1,5 \Rightarrow$$

$$i_2 = 16 \text{ сум} \cdot 1,5 = 24 \text{ сум}$$

Ответ: 24